

LOHP Invertebrate Survey 2022

Invertebrate Survey Report LOHP 2022

Broomscot Common and Scarfe Meadows



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Little Ouse Headwaters Project**

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Contents

| Heading | Sub-heading | Page Number |
|-------------------------------------|---|-------------|
| 1 Summary | | 3 |
| 2 Scope Of Survey | | 3 |
| 3 Introduction | | 4 |
| 4 Methodology | 4.1 Field Survey | 13 |
| 5 Limitations | | 16 |
| 6 Results and Interpretation | | 17 |
| | 6.1 Conservation Status | 17 |
| | 6.2 The Species Accounts | 23 |
| | 6.3 BAP Priority Species (Research Only) Lepidoptera | 42 |
| | 6.4 Analysis | 42 |
| 7 Discussion and Recommendations | | 47 |
| 8 References | | 49 |
| Appendix: Species List | | 51 |

1 Summary

- A baseline survey of invertebrates was carried out at the LOHP sites Broomscot Common and Scarfe Meadows, during 12 visits, between April and November 2022. The results of this survey were combined with data from previous visits to the sites by the surveyor and his colleagues.
- 3,147 records were collated, representing 1,423 distinct invertebrate species. Thirteen of these species are designated as Nationally Rare (NR, Red Data Book) and 90 are designated as Nationally Scarce (NS, Notable).
- Nine species qualify with an IUCN Threat status of ‘Vulnerable’ or ‘Near Threatened’. Those in the former category are Small Heath butterfly *Coenonympha pamphilus*, the moths White-line Dart *Euxoa tritici* and Oak Hook-tip *Watsonalla binaria* and the variegated mud-loving beetle *Heterocerus fuscus*. In the latter category are the aquatic beetles *Enochrus nigritus* and *Agabus uliginosus* and the moths Blackneck *Lygephila pastinum*, Small Dotted Footman *Pelosia obtusa* and Latticed Heath *Chiasmia clathrata*. The IUCN ‘Vulnerable’ beetle *Heterocerus fuscus* is in need of re-evaluation due to overlooked inland populations.
- Two NERC (Natural Environment and Rural Communities Act 2006) Section 41 species were recorded. These are the Small Heath butterfly *Coenonympha pamphilus* and The Five-banded Weevil Fox *Cerceris quinquepunctata*. The NERC legislation requires that ‘the presence of these species needs to be taken into consideration by a public body when performing any of its functions with a view to conserving biodiversity’.
- No **fully** legally-protected species were found during the survey.
- The survey demonstrates the importance of the breck heath habitat at Broomscot Common which supports significant invertebrate assemblages more typical of those sites in the nearby Breckland region.
- Brief recommendations are given for habitat creation and also management of existing habitats, with the aim of potentially enhancing the value of this important habitat mosaic complex for its invertebrate assemblages.

2 Scope of Survey

This survey was commissioned by The Little Ouse Headwaters Project (LOHP), ‘a local Charity dedicated to the restoration, conservation and promotion of enjoyment of the wildlife and landscape of the Little Ouse valley on the Suffolk/Norfolk borders’.

The contract remit was to carry out a baseline survey, to identify and report on terrestrial and aquatic invertebrate species across two sites managed by the organisation. LOHP owns Scarfe Meadows but leases Broomscot Common which belongs to the Garboldisham Parish Charity. The sites lie within close proximity of each other in the parish of Garboldisham and form part of a broader fen-habitat restoration scheme. **The present survey is the third in a series of four baseline surveys of all of the current LOHP reserves.** Previous surveys on other sites owned or leased and managed by the Charity, were carried out in 2019 and 2021 (Lane, 2019; 2021).

Results of the survey were used to evaluate the quality of the sites, and to offer recommendations for management that focus on the creation of new habitat and the preservation and maintenance of significant habitat and related insect assemblages.

This report summarises the results of twelve site survey visits between April 12 and November 16, 2022. In addition, the report also includes data from casual survey visits to Broomscot Common on single dates in June, July, August and November 2017, June 2018, July 2019 and October 2021, and to Scarfe Meadows very briefly on single dates in June and August 2017.

3 Introduction

The following Table gives the site code letter and name, and photographs of aspects and habitat types at each site. Also see **Figs. 1** and **2** below.



Table 1 – Examples of target survey areas (all photographs taken in 2022)

| Site Code | Photograph | Name |
|-----------|--|---|
| A |  | <p>Scarfe Meadows, south-west meadow facing sse. Species poor, cattle-grazed semi-improved grassland with locally dominant <i>Deschampsia cespitosa</i>. In near distance on the left of the photo is ditch D2 which traverses the southern meadows. Sycamores and ash are present.</p> |
| A |  | <p>Scarfe Meadows, south-west meadow facing ssw</p> |



LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|---|
| A |  | <p>Scarfe Meadows, north meadow at higher elevation, facing west along the hedge-line that contains bramble <i>Rubus sp</i>, ivy <i>Hedera helix</i>, blackthorn <i>Prunus spinosa</i>, hawthorn <i>Crataegus monogyna</i> and ash <i>Fraxinus excelsior</i>.</p> |
| A |  | <p>Scarfe Meadows, expansive central area of north meadow characterised by seasonal inundation of <i>Juncus</i>-dominated grassland.</p> |



LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|---|
| D1 |  | <p>Scarfe Meadows main ditch D1 (facing wnw) aligned west to east and separating the north meadow from the south meadows. Bordered by dense emergent common reed <i>Phragmites australis</i>.</p> |
| D2 |  | <p>Scarfe Meadows, small ditch D2, seasonally inundated, aligned approximately north to south and bisecting the southern west and east meadows.</p> |


LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|--|
| D2 |  | <p>Scarfe Meadows detail of wet mud draw down zone of small ditch D2 close to its confluence with the main ditch D1. This small ditch completely dried out in summer 2022.</p> |
| B |  | <p>Broomscot Common facing sse at the point where short turf rabbit-grazed grassland opens out into expansive 'breck' grass heath, bordered by gorse scrub on its north and west perimeters.</p> |

LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|--|
| B |  | <p>Broomscot Common, detail of rabbit <i>Oryctolagus cuniculus</i> earthworks on the 'heath'. Rabbit activity is important in breaking up the turf structure and creating patches of bare ground that are associated with invertebrate assemblages of high insolation habitats.</p> |
| B |  | <p>Broomscot Common, fen area; a linear strip of relatively diverse wetland fen habitat which is cut on rotation and is subject to seasonal inundation. In the background is a line of oaks <i>Quercus robur</i> which flank the site on this northern edge. Oaks are also present along the south boundary of the site.</p> |

LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|---|
| B |  | <p>Broomscot Common, detail of the fen in spring, when the ground was saturated. The fen dried out completely in summer 2022.</p> |
| B |  | <p>Broomscot Common, fen area showing a fallen partially dead willow <i>Salix sp.</i>, which is a source of dead wood for saproxylic species.</p> |

LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|--|
| B |  | <p>Broomscot Common. In the north-west corner of the site is a 'triangular area' of wetland with willow carr. Although the area is seasonally inundated, it almost completely dried out in summer 2022. Desmoulin's whorl snail <i>Vertigo moulinsiana</i> was once found here (Abrehart, 2013).</p> |
| B |  | <p>Broomscot Common. Vegetation heaps produced by the fen cuts, can be found at the base of the oaks at the north edge of the fen. This habitat can be productive for invertebrates, particularly as an overwintering refuge.</p> |

LOHP Invertebrate Survey 2022

| Site Code | Photograph | Name |
|-----------|---|---|
| P1 |  | <p>Broomscot Common, dipping pond, containing a diverse fauna and marginal flora.</p> |
| P2 |  | <p>Broomscot Common, pond in north-east corner of site.</p> |



Fig. 1 LOHP Scarfe Meadows, site 'A': site perimeter marked in orange; ditches 'D1', 'D2' and inundation 'I', marked in red and labelled in black; pitfall trap lines – April (purple), June (green) and September (light blue); two moth trap locations in July marked by stars. (Photo: John Lord)

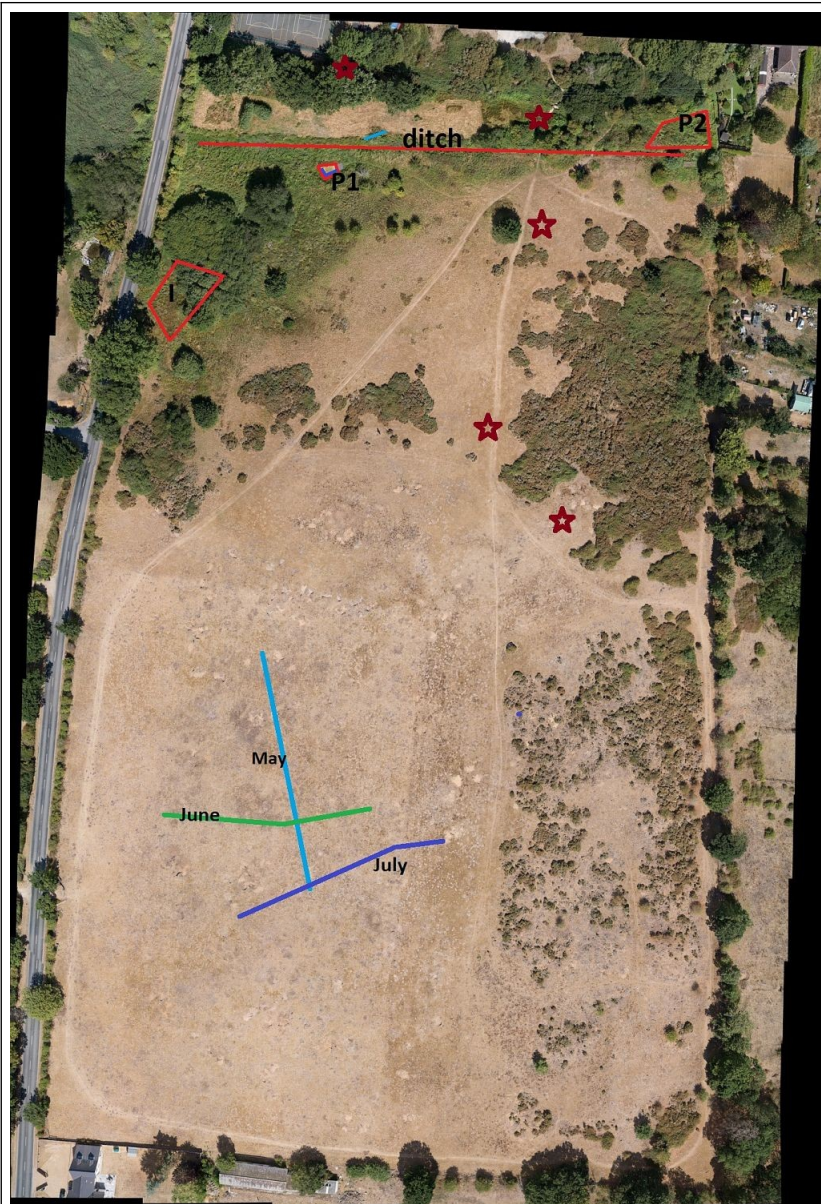


Fig. 2 LOHP Broomscot Common, site 'B': ponds 'P1', 'P2' and ditch marked in red and labelled in black; pitfall trap lines – May (light blue), June (green) and July (purple); five moth trap locations in July marked by stars. (Photo: John Lord)

4 Methodology

4.1 Field Survey

The following insect groups were targeted during the survey:

- Coleoptera (beetles; all families)
- Dermaptera (earwigs)
- Diptera (flies; larger Brachycera, Scathophagidae (part), Sciomyzidae, Syrphidae, Tephritidae and Tipulidae, Limoniidae and allies)
- Hemiptera (true bugs including Auchenorrhyncha and aquatic species, but very few psyllids or aphids)
- Hymenoptera (mainly sawflies, but also some ants, bees and wasps)

LOHP Invertebrate Survey 2022

- Lepidoptera (butterflies and moths)
- Neuroptera (lacewings and their allies)
- Mecoptera (scorpionflies)
- Odonata (dragonflies and damselflies)
- Orthoptera (bush crickets, ground-hoppers and grasshoppers)
- Plecoptera (stoneflies; adults)
- Trichoptera (caddisflies; adults)

The following non-insect groups were targeted during the survey:

- Araneae (spiders)
- Mollusca (aquatic and terrestrial gastropods only, casually recorded)
- Isopoda (woodlice)

The lead surveyor specialises in British beetles (Coleoptera) and true bugs (Hemiptera) so these groups dominate the resulting samples. The lead surveyor was accompanied on many visits in 2022 by Andy Brown, and with an additional supporting visit by James Symonds. Steve Lane (lead surveyor) surveyed mainly for Coleoptera and Hemiptera and Andy Brown surveyed primarily for Diptera and Hymenoptera. All other groups were recorded by both surveyors. With regard to casual survey, Martin Collier (2019) and Darren Mann (2017) both surveyed for Coleoptera at Broomscot Common prior to the 2022 survey and James Symonds visited and co-ordinated a light-trapping session for moth recording on the evening of July 11 into the morning of July 12, 2022, whence terrestrial invertebrate survey was again carried out during daylight hours until midday, mainly by Steve Lane and Andy Brown.

A variety of field techniques were used in the survey. Sweep-netting was conducted by sweeping vegetation with a large heavy-duty net on a metal frame. Beating employed the use of a collapsible sheet on a frame of wood and plastic, and the use of a pole, to beat branches and dislodge arboreal invertebrates from tree and scrub foliage. Particular attention was paid to any standing dead or dying wood such as old dead boughs as these can support scarce and threatened saproxylic species (i.e. those that require dead wood as a medium in which to develop).

A lightweight butterfly net was used to catch aerial and flower-visiting Diptera and Hymenoptera, and also moths.

Grubbing (searching at ground level) and sieving with a bowl and standard mesh plastic garden sieve, were methods that were regularly employed across the site on most visits. These methods were most useful as a means of sampling invertebrates in decaying vegetation and vegetation heaps (the latter at Broomscot Common) in and close to wetland habitats, fungi, moss and cattle dung (the latter at Scarfe Meadows). Rabbit midden dung at Broomscot Common was sieved to sample the dung fauna on the lichen heath. Natural refugia such as large stones and logs, were lifted and the area beneath them inspected for invertebrates.

Close observation was used as a recording technique. This involved either studying small areas of exposed or sparsely-vegetated ground for invertebrates (Broomscot 'heath' area), observing and collecting invertebrates from draw down zone wet mud (Scarfe 'D2') and looking closely at vegetation and blossom to find invertebrates resting or feeding (both sites).

Aquatic sampling was carried out using a standard heavy duty fine-mesh water net. This was used both in a sweeping motion through submerged vegetation and also as a skimming device to retrieve floating water beetles from the water surface immediately following their displacement by the use of trampling and puddling activity in shallow water.

Moth-trapping was carried out using a combination of actinic, LED and mercury-vapour light traps. Three 125Watt Mercury-Vapour Robinson traps were operated on short turf rabbit-grazed 'grass heath' at Broomscot Common, two (a 5 Watt LED Heath trap and a 125Watt MV Skinner trap) were sited at the same locality in and close to fen, and two 15 Watt Actinic Skinner traps were operated at Scarfe Meadows at the hedgerow/grassland interface. The trapping was carried out on the evening of July 11 through to dawn on July 12, 2022.

Grass tussocks were sampled in April and November. The dense root mats of Tufted Hair-grass *Deschampsia cespitosa* are commonly used as hibernating sites for overwintering arthropods. The tussocks are best sampled by cutting through the root-mat such that the tussock is still preserved intact, and inverting the plant over a sieve and bowl before delivering a series of sharp taps to the base, which dislodge invertebrates from within. These fall through the sieve into the bowl where they can be selectively collected and identified. The plant is returned upright to the ground where it will

LOHP Invertebrate Survey 2022

usually re-root from its rootstock if there is sufficient moisture. In the south meadows of Scarfe Meadows, *Deschampsia* is locally prolific, whereas it only grows sparsely at Broomscot Common. At the latter site, a few plants were sampled on November 16, and at Scarfe Meadows, tussocks were worked on this date and earlier in the year in April.

Pitfall trapping is a particularly useful sampling methodology in sparsely-vegetated short sward grassland and on draw-down zones at the edges of standing water. The technique utilises plastic beakers sunk into the ground, flush with the ground surface, to passively collect diurnal and nocturnal ground-active species such as ground beetles, rove beetles, ground bugs and ground-active spiders. The beaker holes are dug with a bulb-corer and the beakers dropped neatly into the holes. The beakers are then charged with saturated salt solution or monopropylene glycol (a harmless semi-viscous food additive) and a coarse-mesh gauze is placed over the opening to prevent reptiles, amphibians and small mammals from falling in. The beakers are then left in situ and serviced by emptying the contents after a period of normally between one and four weeks.

Figs. 1 and 2 show the locations of pitfall-trapping during the survey. Targeted areas at Broomscot were the short turf rabbit-grazed lichen heath and the draw down zones at the edges of the dipping pond ('P1') and adjacent ditch. At Scarfe Meadows, pitfall traps were installed at various locations across the meadows, with the aim of sampling the different vegetation assemblages, and trap lines were also placed along the draw-down zone of the north-south aligned ditch ('D2').

Traps were installed during four periods of the year; in spring, from April 18 to April 25 (Scarfe) and April 25 to May 3 (Broomscot), in early summer, from June 9 to June 14 (both sites simultaneously), in mid-summer, from July 12 to July 15 (Broomscot only) and in late summer, from September 5 to September 9 (Scarfe only). The trapping periods vary both in duration and seasonality, between the two sites, due to consideration of drought and temperature on the trap preservative and trap catches, and also due to consideration of the different habitats at both sites with a view to maximising the productivity of the trap catches for the associated invertebrate assemblages there. Twenty-five traps were used at each site in each trapping period.

Photographs were taken of invertebrates and habitats during the survey.

A certain amount of identification was carried out in the field, but where positive identification required the use of microscopic examination and identification literature ('identification keys'), specimens were collected and removed from the site – most specimens were identified this way. The bio-catches from each site were retained as separate samples. Representatives of Nationally Scarce and Nationally Rare species have been retained as vouchers in the surveyor's personal reference collections. These vouchers are accounted for in the **Appendix**.

Table 2 below lists the survey sites visited on each date and the people who surveyed. The weather conditions on each date were generally optimal for invertebrate survey and have not been recorded, but see '**5 Limitations**' section below.

Table 2. Survey dates, sites visited and surveyors

| Date | Sites Visited | Personnel |
|--------------------------|----------------------------------|--|
| <i>June 30, 2017</i> | Broomscot Common, Scarfe Meadows | SL (Steve Lane), AB (Andy Brown) |
| <i>July 1, 2017</i> | Broomscot Common | SL, DJM (Darren Mann) |
| <i>August 21, 2017</i> | Broomscot Common, Scarfe Meadows | SL, AB |
| <i>November 27, 2017</i> | Broomscot Common | SL, AB |
| <i>June 27, 2018</i> | Broomscot Common | SL |
| <i>July 29, 2019</i> | Broomscot Common | SL, AB, MJC (Martin Collier), TH (Tim Hodge) |
| <i>October 11, 2021</i> | Broomscot Common | SL, AB |
| April 12, 2022 | Scarfe Meadows | SL |
| April 14, 2022 | Broomscot Common, Scarfe Meadows | SL, AB |

LOHP Invertebrate Survey 2022

| | | |
|-------------------|----------------------------------|--|
| April 18, 2022 | Broomscot Common, Scarfe Meadows | SL, AB |
| April 25, 2022 | Broomscot Common, Scarfe Meadows | SL |
| May 3, 2022 | Broomscot Common | SL |
| June 9, 2022 | Broomscot Common, Scarfe Meadows | SL, AB |
| June 14, 2022 | Broomscot Common, Scarfe Meadows | SL |
| July 11-12, 2022 | Broomscot Common, Scarfe Meadows | SL, AB, JS (James Symonds), RL (Rowena Langston) |
| July 15, 2022 | Broomscot Common | SL |
| September 5, 2022 | Broomscot Common, Scarfe Meadows | SL, AB |
| September 9, 2022 | Scarfe Meadows | SL |
| November 16, 2022 | Broomscot Common, Scarfe Meadows | SL |

The result of any site survey depends both on the amount of effort put into recording at that location and the inherent ecological status of the site which is influenced by its size, geographical location, surrounding landscape and habitat biodiversity. For comparison within and between sites to be most accurate, all locations within a site would have to be surveyed with the same measured effort, using standardised sampling techniques. The preferred methodology adopted for the LOHP baseline surveys is for the surveyors to intuitively spend more time on areas that are obviously more diverse and that have the potential to support rare species or assemblages. An 'exhaustive approach' is taken, meaning that sampling is only stopped in a 'productive' area when new species more-or-less cease to be recorded there. By using these criteria, there is a greater likelihood of finding at least some of the scarcer species on the site, and often many more. A standardised methodology can miss these scarce species and produce a generalised list of nothing but common species.

5 Limitations

Natural England published guidelines for conducting invertebrate surveys (Drake *et. al.*, 2007) in which they suggest that 'a reasonably thorough survey of a terrestrial habitat can be made through seven visits at monthly intervals between April and October', but that 'four or five visits over this period will capture most species'. The timing and frequency of the 2022 survey visits of the LOHP sites were ideal for sampling terrestrial species (as well as aquatic species) through all seasons as they have provided visits during the months of April, May, June, July, September and November, and by at least two surveyors on five of the twelve visits in that year.

In recent years, the abundance and diversity of Diptera (and possibly also aculeate Hymenoptera) have been noticeably poor in southern and eastern England (surveyor's experience and Steve Falk *pers comm*, 2019.). There is no specific research known to the surveyor that fully explains the causative factors behind this phenomenon although it may be associated with climate change, particularly with extreme daytime temperatures and also perhaps a direct impact from pesticide use in agriculture. It has been observed recently that there have been huge geographical population shifts in, for example, hoverfly species, due presumably to climate change. *Rhingia campestris* an otherwise common hoverfly around pasture in East Anglia has practically disappeared from this and other England regions in the last few years. Roger Morris, the National recorder for hoverflies notes (*pers comm*) that the population of this hoverfly, along with others, has shifted geographically from southern to northern England and Scotland in a relatively short time frame.

LOHP Invertebrate Survey 2022

The drought conditions experienced in summer 2022 along with persistently high temperatures caused the short sward habitats at the survey sites to 'burn out' resulting in a dearth of invertebrates at ground level. The lead surveyor is familiar with this phenomenon and has in Cambridgeshire for example, noticed that some normally ground-dwelling invertebrates on arable margins during periods of drought, were to be found in abnormal (for them) arboreal situations, possibly seeking micro-climates of increased humidity and reduced temperature. Regardless of this speculative reasoning, the probable migration of species out of habitat rendered uninhabitable due to the 2022 drought, made recording at the Broomscot Common 'heath' in particular, very difficult. Likewise, some of the aquatic sampling planned for summer at both sites had to be abandoned due to drying out of ditches and pools.

Figs 1 and 2 illustrate the condition of the grassland habitat and show, at Scarfe Meadows how the grassland had effectively died and browned prematurely along the northern edge of the north meadow and the south edge of the south meadows. At Broomscot, the burn-out was particularly noticeable on the breck heath area which appears a very pale brown in the photo taken by John Lord in August 2022. The habitat conditions in the two Lord photos contrast dramatically with those shown in the majority of photos in Table 1 which were taken in April 2022, before the drought.

If 2022 is a remarkable and atypical year for extreme high temperatures coupled with a prolonged rainfall deficit, it would be hoped that the invertebrate fauna at the LOHP sites will be resilient and largely unaffected, or that populations will at least recover from any short-term negative effects on their dynamics. If, however, the conditions in 2022 are set to become the new norm, then we enter uncharted territory regards the long-term trends in invertebrate population dynamics in the region and beyond.

6 Results and Interpretation

A total of 3,147 records were amassed from the 2022 survey and this surveyor's collated previous data for Broomscot Common and Scarfe Meadows. Altogether, these records represent 1,423 invertebrate species (not including aggregates of species and indeterminate species), most of which were recorded during the 2022 survey. This total includes 658 Coleoptera (beetles), 263 Lepidoptera (including 19 butterflies), 172 Hemiptera (true bugs), 124 Diptera (flies) and 68 Araneae (spiders). A full species list is given in the Table in the **Appendix** of this report.

No species that are afforded full protection under UK or International legislation were recorded during the survey. However, Small Heath butterfly *Coenonympha pamphilus*, recently designated as IUCN Vulnerable and also an NERC s.41 species (but the latter designation possibly only in the context of 'research only?'), was recorded at Broomscot Common and the s.41 Five-banded Weevil Fox *Cerceris quinquefasciata* was also recorded there. The NERC Act legislation requires that the presence of section 41 'species of principal importance' at a locality, needs to be taken into consideration by a public body (e.g. the planning 'authority') when performing any of its functions (e.g. determining the impact of planning applications) with a view to conserving biodiversity.

6.1 Conservation Status

6.1.1 Nationally Rare and Nationally Scarce Species

Invertebrate surveys conducted between the late 1980s and 2010 relied in their interpretation of species recorded, on information in published Red Data Books and lists of scarce and threatened species, which created British-specific rarity statuses for individual taxa, based on restricted distribution rather than population threat or extinction risk. At the time, the term 'Nationally Scarce', originally coined for plants, was applied to invertebrate species that were known to occur in 16 to 100 10km squares (hectads) of the National Ordnance Survey grid.

Early assessments of invertebrate taxa used the term 'Nationally Notable' for these Nationally Scarce species and, for some taxa, this category was further split into 'Notable A' (Na) for species occurring in 16 to 30 hectads of the National Grid and 'Notable B' (Nb) for those occurring in 31 to 100 hectads. A further category used was 'Red Data Book' which equates to 'Nationally Rare'. This category was used for species that occurred in 15 or fewer hectads in Britain. It was further subdivided depending on the perceived or actual degree of rarity, e.g. 'RDB3' as Rare, 'RDB2' as Vulnerable, 'RDB1' as Endangered, 'RDBI' as 'Red Data Book Indeterminate' and 'RDBK' as 'Red Data Book Insufficiently Known'.

LOHP Invertebrate Survey 2022

Recently, since 2010, **IUCN Reviews** have been produced for many invertebrate groups and these are continuing to be written. These Reviews deal primarily with **threat** status, but they also re-evaluate existing British Rarity (restricted distribution) statuses to bring them up-to-date. In the recent IUCN Reviews, the restricted distribution categories have now been standardised to 'Nationally Rare' (NR) and 'Nationally Scarce' (NS) without further subdivision.

Thus, the British system of assessing rarity based solely on distribution is used alongside IUCN criteria which, although they also use measures of geographical extent, are primarily concerned with assessing National and International Threat in terms of decline of species populations.

In this report, for the taxa found at the site, I have used the newly-adopted British Rarity categories 'NS' (Nationally Scarce) and 'NR' (Nationally Rare) where these appear in IUCN Reviews. Otherwise, where no such IUCN reviews yet exist for the species recorded, I have resorted to the older categorisations of Nationally Scarce 'Notable A', 'Notable B' and 'Notable' and for Red Data Book species, the older 'RDB' categories. The situation is currently complex, but it will eventually become more simple as further invertebrate groups are assessed for IUCN Reviews and the terminology becomes standardised.

A total of 13 Nationally Rare (NR) species were recorded during and prior to the survey along with 90 species of Nationally Scarce (NS) status. The Nationally Rare and Scarce species are listed in Table 3 below.

6.1.2 IUCN Nationally Threatened Species

The main categories in the IUCN Reviews which deal with Threat status are, in order of increasing threat status; 'Least Concern (LC)', 'Near Threatened (NT)', 'Data Deficient (DD)', 'Vulnerable (VU)', 'Endangered (EN)', 'Critically Endangered (CR)' and 'Regionally Extinct (RE)'. Analysis for each species is based on the area that it occupies and/or population statistics with an emphasis on trends of decline and the magnitude of such trends.

From the 2022 LOHP survey, **nine species are identified as having IUCN Threat designation of 'Near Threatened' or, 'Vulnerable' status. In addition, two species are NERC s.41 Species 'of principal conservation importance'.** The IUCN Threat status and NERC species are listed in Table 3 below. Designation in the IUCN 'Near Threatened' category indicates that after all available data has been evaluated for a species, it currently fails to qualify as threatened (with extinction), but only narrowly so. Were the British populations to deteriorate further in future years, the species may qualify as being for example 'Vulnerable' or even 'Endangered'.

Table 2 below lists the 108 species with conservation status recorded during and prior to the 2022 survey.

The common or 'vernacular' names have been taken from a number of different literature and internet sources, as well as from 'MapMate'.

Site Code Key:

'A' = Scarfe Meadows

'B' = Broomscot Common

Months - number refers to number of month e.g. '5' = May, '11' = November

Habitat Codes indicating the following species assemblages:

'a' = aquatic

'a/w' = where a species exists at different life stages in both truly aquatic and terrestrial wetland habitats (e.g. dragonflies)

'g' = grassland generally

'h' = breck heath and short turf grassland species (habitat characterised by sparsely-vegetated short sward high insolation grassland or lichen heath)

's' = hedgerow and scrub habitat, including isolated dead wood

'w' = wetland (terrestrial habitat)

The 'Association' column lists main plant associations where these are known and are few, and also fungi where these are reliable associations for that species.

LOHP Invertebrate Survey 2022

Conservation ‘Status’ column key; ‘NR’ = Nationally Rare species, ‘NS’, Nationally Scarce and the IUCN statuses are ‘NT’ – Near Threatened and ‘VU’ – Vulnerable. ‘LC’ = Least Concern under IUCN evaluation. For definitions of British Rarity codes, see section 6.1.1 or for further interpretation of IUCN evaluation see *e.g.* Lane (2019)

Table 2 The 108 taxa recorded at LOHP Scarfe Meadows and Broomscot Common that have British Rarity status of Nationally Scarce (‘Notable’ or ‘NS’) or Nationally Rare (‘Red Data Book’ or ‘NR’) designation and/or IUCN Threat Status (including Near Threatened). Square brackets indicates a taxon in need of status re-evaluation due to recent range expansion or which was formerly under-recorded.

| Family | Taxon | Vernacular | Site | Months | Habitat Code | Association | Status |
|--|----------------------------------|---------------------|------|--------|--------------|-----------------------|---------|
| Araneidae – orbweb spiders | <i>Hypsosinga albovittata</i> | | B | 5 | h | | NS/LC |
| Gnaphosidae – ground spiders | <i>Zelotes electus</i> | | B | 56 | h | | NS/LC |
| Lycosidae wolf spiders | <i>Pardosa tenuipes</i> | | A | 46 | w | | NS/LC |
| Salticidae – jumping spiders | <i>Marpissa muscosa</i> | | A | 469,10 | s (gate) | | NS/LC |
| Anthribidae – fungus weevils | <i>Platystomos albinus</i> | | A | 6 | s | fungus-infected trees | NS/- |
| Apionidae – seed weevils | <i>Melanapion minimum</i> | Sallow Guest Weevil | A | 6 | w | willows | NR/- |
| Cantharidae – soldier beetles | <i>Cantharis fusca</i> | | A | 6 | w | | NS/LC |
| Cantharidae | <i>Rhagonycha lutea</i> | | A | 6 | s | | NS/LC |
| Carabidae – ground beetles | <i>Amara lucida</i> | | B | 567 | h | | NS/LC |
| Carabidae | <i>Amara montivaga</i> | | B | 6 | h | | NS/LC |
| Carabidae | <i>Harpalus anxius</i> | | B | 567 | h | | NS/LC |
| Carabidae | <i>Harpalus smaragdinus</i> | | B | 6 | h | | NS/LC |
| Carabidae | <i>Oodes helopioides</i> | | A | 46 | w | | NS/LC |
| Carabidae | <i>Pterostichus gracilis</i> | | A | 46 | w | | NS/LC |
| Carabidae | <i>Stenolophus skrimshiranus</i> | | AB | 46 | w | | NS/LC |
| Carabidae | <i>Stenolophus teutonius</i> | | AB | 6,11 | w | | [NS/LC] |
| Carabidae | <i>Syntomus truncatellus</i> | | A | 6,11 | g | | NS/LC |
| Chrysomelidae – leaf beetles | <i>Cassida prasina</i> | | B | 47 | g | yarrow | NS/LC |
| Coccinellidae – ladybirds | <i>Hippodamia variegata</i> | Adonis Ladybird | B | 7 | h | | [NS/-] |
| Coccinellidae | <i>Nephus quadrimaculatus</i> | Four-spotted Nephus | B | 10 | s | ivy | [NR/-] |
| Corylophidae – minute hooded beetles | <i>Orthoperus nigrescens</i> | | B | 6 | s | dead wood | [NS/-] |
| Cryptophagidae – silken fungus beetles | <i>Atomaria scutellaris</i> | | A | 4 | h | | [NR/-] |
| Curculionidae – | <i>Acalyptus carpini</i> | | AB | 47 | w | willows | NS/- |

LOHP Invertebrate Survey 2022

| Family | Taxon | Vernacular | Site | Months | Habitat Code | Association | Status |
|---|--|---------------------|------|---------|--------------|-----------------------------------|---------|
| weevils | | | | | | | |
| Curculionidae | <i>Brachypera dauci</i> | | B | 5 | h | common stork's-bill | NS/- |
| Curculionidae | <i>Coeliodes ruber</i> | | B | 4 | s | oak | NS/- |
| Curculionidae | <i>Coeliodes transversealbofasciatus</i> | | B | 4 | s | oak | NS/- |
| Curculionidae | <i>Glocianus pilosellus</i> | | B | 5 | h | 'lesser dandelion' | NR/- |
| Curculionidae | <i>Gymnetron rostellum</i> | | A | 4 | g/h | speedwells? | NS/- |
| Curculionidae | <i>Magdalis cerasi</i> | | B | 6 | s | hawthorn and other Rosaceae | [NS/-] |
| Curculionidae | <i>Rhinocyllus conicus</i> | | B | 6 | g | thistles | [NS/-] |
| Curculionidae | <i>Sibinia primita</i> | | B | 5 | h | <i>Sagina sp</i> | [NS/-] |
| Curculionidae | <i>Tychius pusillus</i> | | B | 7 | g | <i>Trifolium dubium</i> | NS/- |
| Dermestidae – hide beetles etc | <i>Dermestes murinus</i> | | B | 5 | | carrion | NS/LC |
| Dytiscidae – diving beetles | <i>Agabus uliginosus</i> | | B | 4 | a | | NS/NT |
| Erirhinidae – wetland weevils | <i>Grypus equiseti</i> | Horsetail Weevil | A | 4 | | horsetails | [NS/-] |
| Erirhinidae | <i>Notaris scirpi</i> | | A | 6 | w | sedges, club-rushes, bulrush | [NS/-] |
| Helophoridae – water scavenger beetles | <i>Helophorus strigifrons</i> | | B | 4 | a | | NS/LC |
| Heteroceridae – variegated mud-loving beetles | <i>Heterocerus fuscus</i> | | A | 4 | w | | [NR/VU] |
| Histeridae – clown beetles | <i>Saprinus aeneus</i> | Bronze Mirror Clown | B | 58 | h | carrion and dung | NS/LC |
| Histeridae | <i>Saprinus planiusculus</i> | Coastal Clown | B | 5 | h | carrion | NS/LC |
| Hydrophilidae – water scavenger beetles | <i>Cercyon granarius</i> | | AB | 4569,11 | w | | NS/LC |
| Hydrophilidae | <i>Enochrus nigrinus</i> | | A | 47 | a | | NS/NT |
| Hydrophilidae | <i>Enochrus quadripunctatus</i> | | AB | 7 | a | | NS/LC |
| Melandryidae – false darkling beetles | <i>Abdera biflexuosa</i> | | B | 67 | s | dead wood, usually off oak boughs | NS/LC |
| Melyridae – soft-winged flower beetles | <i>Anthocomus fasciatus</i> | | B | 4 | | | NS/LC |
| Mordellidae – tumbling flower beetles | <i>Mordellistena variegata</i> | | B | 67 | s | | NS/LC |
| Nitidulidae – sap | <i>Thalycra fervida</i> | | A | | | sap runs and | NS/- |

LOHP Invertebrate Survey 2022

| Family | Taxon | Vernacular | Site | Months | Habitat Code | Association | Status |
|---|----------------------------|------------|------|--------|--------------|----------------------------------|--------|
| beetles | | | | | | decaying organic matter | |
| Orsodacnidae – orsodacnid leaf beetles | Orsodacne cerasi | | A | 6 | s | | NS/LC |
| Phalacridae – shining flower beetles | Olibrus millefolii | | B | 7 | h | yarrow | NS/LC |
| Phalacridae | Olibrus pygmaeus | | B | 7 | h | common cudweed | NS/LC |
| Ptinidae – wood-boring beetles | Hadrobregmus denticollis | | A | 6 | s | dead wood | NS/LC |
| Salpingidae – narrow-waisted bark beetles | Lissodema denticollis | | B | 6 | s | dead wood | NS/LC |
| Scarabaeidae – dung beetles | Bodiloides ictericus | | B | 6 | h | dung | NS/LC |
| Scarabaeidae | Chilothorax distinctus | | B | 5 | h | dung | NS/LC |
| Scirtidae – marsh beetles | Elodes elongatus | | B | 6 | a/w | | NS/LC |
| Scraptiidae – false flower beetles | Anaspis thoracica | | B | 7 | s | dead wood | NS/LC |
| Sphindidae – cryptic slime-mould beetles | Sphindus dubius | | B | 7 | s | slime moulds | NS/- |
| Staphylinidae – rove beetles | Alaobia scapularis | | B | 6 | | | NS/- |
| Staphylinidae | Aleochara brevipennis | | A | 469 | g | | NS/- |
| Staphylinidae | Aleochara verna | | B | 5 | | dung | [NR/-] |
| Staphylinidae | Amarochara forticornis | | A | 11 | w? | | NR/- |
| Staphylinidae | Atheta basicornis | | A | 6 | w | | NS/- |
| Staphylinidae | Bledius dissimilis | | A | 7 | w | | NS/LC |
| Staphylinidae | Carpelimus lindrothi | | A | 9 | w | | NS/LC |
| Staphylinidae | Cypha discoidea | | A | 4 | w | | NS/- |
| Staphylinidae | Dochmonota clancula | | B | 4 | w | | NS/- |
| Staphylinidae | Lathrobium fovulum | | B | 11 | w | | NS/LC |
| Staphylinidae | Omalium oxyacanthae | | B | 5 | | decaying organic matter | NS/LC |
| Staphylinidae | Oxypoda lurida | | B | 5 | h | | NS/- |
| Staphylinidae | Oxytelus piceus | | A | 7 | h | dung | NS/LC |
| Staphylinidae | Stenus butrintensis | | A | 46 | w | | NS/- |
| Staphylinidae | Tachinus flavolimbatus | | AB | 4,10 | | decaying vegetation heaps mainly | NS/LC |
| Throscidae – throscid beetles | Aulonothroscus brevicollis | | A | 6 | s | | [NR/-] |

LOHP Invertebrate Survey 2022

| Family | Taxon | Vernacular | Site | Months | Habitat Code | Association | Status |
|------------------------------------|---------------------------|---------------------------|------|--------|--------------|----------------------------------|---------|
| Forficulidae – earwigs | Apterygida media | Short-winged Earwig | A | 8 | | | NS/LC |
| Dolichopodidae – long-legged flies | Hercostomus plagiatus | | B | 7 | w | | NS/LC |
| Opomyzidae – opomyzid flies | Opomyza punctata | | A | 9 | | | NS/- |
| Stratiomyidae – soldier flies | Odontomyia argentata | Silver Colonel | A | 4 | w | | NS/LC |
| Tabanidae – horse flies | Tabanus maculicornis | Narrow-winged Horsefly | A | 6 | w | | NS/LC |
| Cicadellidae – leafhoppers | Ophiola decumana | | B | 6 | h | | NS/- |
| Cicadellidae | Tremulicerus fulgidus | | B | 7 | | poplars | NS/- |
| Coreidae – leatherbugs | Arenocoris falleni | Fallen's Leatherbug | B | 67 | h | common stork's-bill | NS/LC |
| Coreidae | Spathocera dalmanii | Dalman's Leatherbug | B | 6 | h | sheep's sorrel | NS/LC |
| Delphacidae – planthoppers | Megamelodes lequesnei | | B | 10 | w | | NS/- |
| Delphacidae | Stenocranus fuscovittatus | | A | 4 | w | sedges and grasses | NS/- |
| Lygaeidae – groundbugs | Megalonotus antennatus | | A | 6 | g | | NS/- |
| Lygaeidae | Megalonotus praetextatus | | B | 7 | h | | NS/- |
| Lygaeidae | Megalonotus sabulicola | | B | 7,10 | h | | NS/- |
| Lygaeidae | Nysius graminicola | | B | 9 | h | | [NR/-] |
| Miridae – plant bugs | Capsus wagneri | | A | 6 | w | | NS/- |
| Rhopalidae – rhopalid bugs | Rhopalus parumpunctatus | | B | 7 | g | | NS/LC |
| Scutelleridae – tortoise bugs | Odontoscelis lineola | Lesser-streaked Shieldbug | B | 56 | h | common stork's-bill | NS/LC |
| Chrysididae – ruby-tailed wasps | Hedychrum niemelai | | B | 7 | h | | [NR/-] |
| Crabronidae – digger wasps | Cerceris quinquefasciata | Five-banded Weevil Fox | B | 7 | h | | NR/- |
| Formicidae – ants | Lasius brunneus | Brown Tree Ant | AB | 46 | s | | NS/- |
| Melittidae – melittid bees | Dasygaster hirtipes | Pantaloon Bee | B | 7 | h | | NS/- |
| Crambidae – grass moths | Anania verbascalis | Golden Pearl | B | 7 | h | wood sage | NS/- |
| Crambidae | Evergestis limbata | Dark Bordered Pearl | A | 7 | | garlic mustard, hedge mustard | NS/- |
| Crambidae | Pediasia contaminella | Waste Grass-veneer | B | 7 | h | grasses including sheep's fescue | NS/- |
| Drepanidae – hook-tip moths | Watsonalla binaria | Oak Hook-tip | B | 7 | s | oak | none/VU |

LOHP Invertebrate Survey 2022

| Family | Taxon | Vernacular | Site | Months | Habitat Code | Association | Status |
|--|------------------------------|----------------------|------|--------|--------------|------------------------|---------|
| Erebidae | <i>Lygephila pastinum</i> | Blackneck | B | 7 | w | tufted vetch | none/NT |
| Erebidae | <i>Pelosia obtusa</i> | Small Dotted Footman | A | 7 | w | ?algae on reeds | NR/NT |
| Ethmiidae – Ethmiid Moths | <i>Ethmia quadrillella</i> | Comfrey Ermel | A | 7 | | comfrey, green alkanet | NS/- |
| Gelechiidae – gelechiid moths | <i>Oxypteryx wilkella</i> | Painted Neb | B | 7 | h | mosses | NS/- |
| Geometridae – geometer moths | <i>Chiasmia clathrata</i> | Latticed Heath | AB | 67 | g | Fabaceae | none/NT |
| Noctuidae – noctuid moths | <i>Euxoa tritici</i> | White-line Dart | AB | 7 | h | | none/VU |
| Nymphalidae – brush-footed butterflies | <i>Coenonympha pamphilus</i> | Small Heath | B | 9 | g | Poaceae | none/VU |
| Pyralidae – pyralid moths | <i>Pempelia genistella</i> | Gorse Knot-horn | B | 7 | h | gorse | NS/- |
| Nemouridae – nemourid stoneflies | <i>Nemoura dubitans</i> | | AB | 4 | a/w | | NR/LC |

6.2 The Species Accounts

Individual accounts are provided below for each Nationally Scarce, Nationally Rare and IUCN Threatened and Near Threatened species recorded during and prior to the 2022 survey.

Wetland Aquatic/Semi-aquatic Species

Agabus uliginosus – a diving beetle

Status: Nationally Rare (NR), IUCN Near Threatened

This convex brownish diving beetle with pale thoracic margins is associated with highly temporary waters on still ground such as those in fluctuating marshes and fens. It is found more-or-less throughout Britain although absent from the central midlands, the extreme south-east and south-west of England and large parts of Wales and Scotland. The majority of records are from eastern England, from East Anglia up into Yorkshire. Adults can be found in all months of the year. In Norfolk, it is relatively frequently recorded. On the 2022 survey, a female of the matt variety was netted from the willow carr inundation in the north-west section of Broomscot Common on April 18.

Cercyon granarius – a water scavenger beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small rotund and convex black species is associated with floating vegetation in fens, but also occasionally in other aquatic habitats. Adults have been recorded in most months of the year. The species is widespread but highly localised with scattered records across southern and midland England and Wales. On the 2022 survey, this species was well represented, with 10 recovered from pitfall traps on the east side of the north pasture at Scarfe Meadows on April 25 along with one in the trap series in the south-west pasture and another three from the 'Ditch 2' trap lines, and on June 14, three were present in pitfalls from the north pasture inundation area. Finally, an individual was sieved from a *Deschampsia cespitosa* tussock in the south-west meadow on November 16. At Broomscot Common, one was 'grubbed' from the fen area on September 5 and eight specimens were present in pitfall traps set along the fen edge ditch line on May 3.

Enochrus nigrinus – a water scavenger beetle

Status: Nationally Scarce (NS), IUCN Near Threatened

LOHP Invertebrate Survey 2022

This is a small brownish water beetle with a very narrow dark longitudinal stripe along the elytral suture. It occurs in mesotrophic and base-rich fens in lowlands. An egg-case is produced, sometimes under water, and larval development may last between one and two months. Adults feed on algae and decaying plants whereas the larvae are predators. Adults are found throughout the year but are most numerous in April, July and September. *E. nigrinus* has been recorded since 1980 from Hampshire, Sussex, Berkshire, Oxfordshire, Suffolk, Norfolk, Cambridgeshire, Huntingdonshire, Herefordshire, Anglesey and Cheshire. The species is particularly well-represented in East Anglian fens. On the 2022 survey, a male was netted from 'ditch 1' on April 14, and a specimen was found at a light trap on July 12, both records from Scarfe Meadows.

Enochrus quadripunctatus – a water scavenger beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a slightly larger species than the last, but identical in form. It has a characteristic dark patterning on the thorax consisting of a large central dark area with four small satellite spots. The beetle occurs in lowland, base-rich stagnant water with some exposed mineral substrate and also in mesotrophic fens. An egg-case is produced, sometimes under water, and larval development may last between one and two months. Adults feed on algae and decaying plants whereas the larvae are predators. This species has expanded its range recently. It is found mainly in eastern Britain, in most counties from East Sussex northwards to two sites in Scotland, with most records centred around London and East Anglia. It is also found in Wales. On the 2022 survey one flew to a light trap at Broomscot Common on July 11 and another was found at the Scarfe Meadows light traps the following morning.

Helophorus strigifrons – a water scavenger beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small helophorid beetle is most often associated with fluctuating water levels and inundations, where there is plenty of sedge and rush litter. Adults feed on decaying organic plant matter whereas the larvae are predatory. The adults can be found throughout the year but are most numerous in April and September. The species is widely distributed throughout Britain. On the 2022 survey, three adults were recorded at Broomscot Common on April 18.

Nemoura dubitans – a stonefly

Status: Nationally Rare (NR), IUCN Least Concern

This species develops in seepages flowing through well-vegetated wetland habitat. Macadam (2015) upgraded the species' British Rarity status from Nationally Scarce to Nationally Rare on the basis of there being only fourteen modern records, although NBN appears to show more than this and the lead surveyor is familiar with the species from a number of sites. It is distributed very locally in England and has also been recorded from Wales and Scotland. On the 2022 survey, two adult females were swept at Scarfe Meadows on April 14 and a single female was swept at Broomscot Common on April 18.

Wetland Terrestrial Species

Acalyptus carpini – a weevil

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This small grey weevil is a phytophage on *Salix* and is associated almost exclusively with fen sites across East Anglia, its main area of distribution. It has also been recorded elsewhere in southern England (e.g. south coast, south and east midlands) and Wales, but it is scarce in these regions. Adults overwinter and have been recorded in most months of the year. On the 2022 survey, adults were beaten off willows at Scarfe Meadows on April 12 and July 11, and at Broomscot Common, the species was recorded on July 29, 2019.

Atheta basicornis – an aleocharine rove beetle

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

This diminutive wetland species is recorded from marshes, carr and wet woodland, particularly where willows are present. It has specifically been recorded in vegetation litter and under bark and in dead wood where it may be associated with fungi. There is also a record from a swan's nest. Adults have been found between March and December. The beetle is widespread but very locally distributed in England and Wales. In Norfolk it is scarce and there are few records. On the 2022 survey, a female was recorded at Scarfe Meadows on June 9.

Bledius dissimilis – a rove beetle

Status: Nationally Scarce (NS), IUCN Least Concern

LOHP Invertebrate Survey 2022

This small rove beetle is characteristic of water edge habitats including gravel pits and riverbanks and is also found at seepages on clay cliffs. Adults burrow into wet sand and clay and in common with other species in the genus, they probably feed on algae and detritus. The species has been recorded between April and October with many records of beetles attracted to moth light traps. Its distribution extends from south-east England into central and north-east regions. On the 2022 survey, a male was found at the Scarfe Meadow moth traps on the morning of July 12.

Cantharis fusca – a soldier beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a large, characteristically-patterned grey-blue and red soldier beetle that is found in wet or damp grassland sites such as lowland meadows, marshy grassland and rich fen. It is also found in the upper zone of salt-marshes. Adults are active during May and June. The beetle has expanded its known range significantly over the last two decades and is now very much more widely distributed than it was in the 1980s and 90s. It is currently found in England, Wales and Scotland with the majority of records south of an imaginary line drawn from The Wash on the east coast to The Severn estuary on the west coast. In Norfolk, it is known from Stoke Ferry, and from Cley (where first recorded in the region in 2014), Salthouse Marsh and Adcock's Common SSSI. On the LOHP 2022 survey, five beetles were recorded on June 9 at Scarfe Meadows. Of these, one was beaten off willows next to the entrance information panels and two were beaten off the old hawthorn tree at the south end of 'Ditch 2'.

Capsus wagneri – a capsid or plant bug

Status: Nationally Scarce (Notable B), IUCN not yet evaluated

This is a small black bug with a rounded outline and slightly enlarged antennal segments. It is best identified by dissection of the male genitalia. The species is known from high quality fen sites in Somerset, Cambridgeshire, Norfolk, Northamptonshire, Gloucestershire, Huntingdonshire, Lincolnshire, Yorkshire and Sussex. This is a wetland species associated with various grasses including *Calamagrostis sp* and also *Phalaris arundinacea* (Reed Canary Grass). All sites from which it has been recorded are long-established wetlands. Adults are mostly recorded in the second half of June and in July. There is one generation a year, with the overwintering stage presumably an egg. On the 2022 survey, a male was swept at Scarfe Meadows on June 14.

Carpelimus lindrothi – a rove beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This relatively recent addition to the British fauna was first recorded in Britain, from Norfolk in 1976. It has since colonised East Anglia and the Midlands regions into southern England, where it is found on mud in damp or marshy habitats, particularly those where draw-down zone is an annual seasonal occurrence. Adults have been recorded in most months of the year. On the 2022 survey, two were found crawling on mud on drawdown at 'Ditch 2' at Scarfe Meadows on September 5.

Cypha discoidea – an aleocharine rove beetle

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated.

This minute rove beetle is typical of wetland habitats such as fens and marshes, where it is perhaps most commonly encountered by sieving wet reed and sedge 'litter' or wet decaying heaps of cut vegetation. Adults are found in most months of the year and it is distributed locally in England and has also been recorded in Wales. On the 2022 survey, an individual was sieved from vegetation litter at the edge of 'Ditch 1' at Scarfe Meadows on April 12.

Dochmonota clancula – an aleocharine rove beetle

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

This minute black rove beetle is sometimes present in numbers in wet litter and vegetation debris at the margins of pools, pingos and other inundations. It has a widespread distribution throughout England and has possibly also been found in Scotland. On the 2022 survey, a singleton was recorded in wetland habitat at Broomscot Common on April 18.

Elodes elongatus – a marsh beetle

Status: Nationally Scarce (NS), IUCN Least Concern

The adults of this wetland species are mainly recorded between May and July when they can be beaten off tree and shrub foliage overhanging or close to water courses. The larvae which have not yet been described, are almost certainly aquatic and probably develop over at least a two year duration whereas the adults, by comparison are very short-lived. The beetle is widespread but locally distributed in suitable habitat throughout Britain. On the 2022 survey, four males were beaten off oaks next to the fen area at Broomscot Common on June 9.

LOHP Invertebrate Survey 2022

Hercostomus plagiatus – a long-legged fly

Status: Nationally Scarce (NS), IUCN Least Concern

This is a fly of wetland habitats including fens, wet woodland and coastal cliff seepages. Little is known of its ecology, but the larvae are possibly semi-aquatic predators. Adults are found between May and August. The distribution of the species is highly localised but widespread, extending from south England into East Anglia, Wales, and as far north as Yorkshire. On the 2022 survey, a male was found in pitfall traps around the dipping pond ('P1') at Broomscot Common on July 15.

Heterocerus fuscus – a variegated mud-loving beetle

Status: [Nationally Rare (NR), IUCN Vulnerable]

Like the other members of this genus, the present species is most easily observed in the field by splashing water onto bare muddy margins of pools, at which point the beetles rapidly emerge from their burrows in the mud and usually take flight. This particular species was until recently, believed to be restricted to the seepages at the base of coastal cliffs on the Isle of Wight until this author and a colleague noticed that they were finding the species in inland counties at actinic light traps. Thus the distribution of the species has been greatly misunderstood and inland records have undoubtedly been passed off by many, as aberrant dark-legged examples of the related *H. fenestratus*. Both the British Rarity and IUCN statuses of *H. fuscus* are therefore in need of re-evaluation and are very likely to be removed. On the 2022 survey, a single adult was recovered from pitfall trap lines on the east edge of the north pasture of Scarfe Meadows on April 25.

Lathrobium fovulum – a paederine rove beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a moderately large predatory rove beetle of wetland habitats including marshes and fens, where adults are usually recorded from wet vegetation litter. The species has been recorded in all months of the year. It is widespread but very locally distributed in central and southern England and Wales, and also from northern England and central and southern Scotland, although it becomes more scarce further north. In East Anglia, it is regularly recorded and not infrequent. The species has only very recently been designated with a British rarity status. At the LOHP sites, it was recorded outside of the 2022 survey, on November 27, 2017, when a male was sieved from a grass tussock at Broomscot Common.

Lygephila pastinum - Blackneck

Status: no British Rarity status, IUCN Near Threatened

This species flies in June and July and is distributed very locally throughout England and Wales, north to Yorkshire. It is typically found in wetland habitats including damp grassland where the larvae feed on plants in the Fabaceae, particularly tufted vetch. The species is widely distributed and not infrequent in Norfolk. On the 2022 survey, the species was recorded at the Broomscot Common moth traps on July 11/12.

Omalium oxycanthae – an omaliine rove beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a relatively small predatory black rove beetle found in a variety of habitats where it can be associated with fungi or carrion; decaying organic material generally. Adults have been found in most months of the year. The beetle is distributed very locally throughout much of Britain. In East Anglia it is very locally distributed and infrequent. On the 2022 survey, one was sieved from vegetation beneath a dead muntjac at Broomscot Common on May 3.

Megamelodes lequesnei – a planthopper

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This small planthopper is associated with wetland habitats. Its British distribution stronghold is in East Anglia (particularly in The Broads), a region which appears to account for around 80% of all records. Elsewhere, there are scattered records in Wales and in England north to Derbyshire. Little is known about the life cycle of this species in Britain. The bug may utilise *Juncus* as a food-plant. Prior to the 2022 survey, three males were swept from fen vegetation at Broomscot Common on October 11, 2021.

Melanapion minimum – Sallow Guest Weevil

Status: Nationally Rare (Red Data Book RDB3), IUCN status not yet evaluated

This small black phytophagous weevil is associated with *Salix* species, both broad and narrow-leaved types, in wetland and fen habitats. The larvae are inquilines in the galls of sawflies of the genus *Pontania*, hence the vernacular name. The weevil is widely distributed but very highly localised in England and Wales. The majority of records are clustered

LOHP Invertebrate Survey 2022

in the fen regions of East Anglia where it can be found with some reliability. On the 2022 survey, an individual was beaten off willows overhanging the eastern perimeter fence-line of the south-east pasture at Scarfe Meadows on June 9.

Notaris scirpi – a weevil

Status: [Nationally Scarce (Notable B), IUCN status not yet evaluated]

This medium-sized grey-black weevil is strongly associated with wetland habitats where it feeds on lesser pond-sedge *Carex acutiformis* and reed-mace *Typha latifolia*. The larvae develop at the roots of the food-plants. Adults are active in the field between April and October. The species is widespread but locally distributed throughout England and Wales. It is fairly frequently encountered and no longer merits its designated 'Notable' status, as at October 2021, it had been recorded from 177 hectads of the National grid. This change in status has yet to be formally acknowledged. On the 2022 survey, an adult was recorded at the edge of 'Ditch 1' at Scarfe Meadows on June 14.

Odontomyia argentata – The Silver Colonel **Fig.5**

Status: Nationally Scarce (NS), IUCN Least Concern

This is a moderately large soldier fly with striking silver pubescence on the abdomen. The larval development of this species occurs in wetland habitat in shallow flood-plains in unimproved grassland, typified by the East Anglian fen districts where it is perhaps most frequently recorded. The British distribution sits below a line drawn from the Wash to the Bristol channel with most records occurring in the east and fewest in the west of this range. There is a possibility that the species is undergoing expansion in its range. On the 2022 survey, at Scarfe Meadows, a female was swept at the edge of 'Ditch 2' and another was swept at the 'Inundation' in the north field, both on April 25.

Oodes helopioides – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is an unmistakable ground beetle, resembling *Amara* in its ovoid shape, but having a more depressed and purely black appearance. It is unique amongst ground beetles in having an amphibious habit. The adult beetles can forage underwater and are thus semi-aquatic, yet they are most often observed by the recorder through sieving waterside vegetation and tussocks and pitfall-trapping. As a wetland inhabitant, the beetle is most frequently associated with fens, grazing marshes, wet heaths, water meadows and pingos. The species is widespread but very locally distributed in England and Wales, with reports also from Scotland. Adults have been recorded throughout the year. On the 2022 survey, two individuals were recorded at Scarfe Meadows in pitfall traps at the edge of 'Ditch 2' on April 25 and a singleton was recorded in similar circumstances on June 14.

Pardosa tenuipes (previously *proxima*) – A wolf spider

Status: Nationally Scarce (NS), IUCN Least Concern

This highly active ground-dwelling predator, is associated with damp habitats and wetland localities, typically at the margins of streams. Many of its known sites in England, Wales and south-west Scotland are coastal. Adults are most often encountered in the field between May and July. On the 2022 survey, single adult males were recovered from the 'Ditch 2' and north meadow 'Inundation' pitfall trap series at Scarfe Meadows on June 14.

Pelosia obtusa - Small Dotted Footman

Status: Nationally Rare, IUCN Near Threatened

Discovered new to Britain in 1962, this moth is a rare species Nationally that is almost exclusively restricted to the dense reed-bed habitats of the fens in the Norfolk Broads. The larvae probably feed on lichens and algae. The single generation of the year gives rise to adults in July. On the 2022 survey, the species was recorded at the Scarfe Meadows moth traps on July 12.

Pterostichus gracilis – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

In appearance this predator is unexceptional, representing a typical black ground beetle of the *Pterostichus* genus. It is found in damp, lush vegetation at the margins of lakes, ponds, reservoirs, riverbanks and other wetland habitats. The beetle is widely distributed but decidedly local in England and Wales, northwards to Lancashire with scattered outlier populations in Scotland. On the 2022 survey, two males were found in pitfall traps in the south-west meadow of Scarfe Meadows on April 25 and two adults were in pitfall traps along the edge of 'Ditch 2' on June 14.

Stenocranus fuscovittatus – a planthopper

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

LOHP Invertebrate Survey 2022

This small pale brown planthopper is found in wetland habitats including wet meadows, where it is associated with grasses and sedges. Adults are present between June and September. The species is very locally distributed in England and Wales, and appears to be primarily restricted to East Anglia in the former country. On the 2022 survey, an adult was swept in the south-west meadow at Scarfe Meadows, on April 25.

Stenolophus skrimshiranus – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This black and orange predatory beetle inhabits fens, marshes and other water edge habitats where it is most likely to be encountered amongst dense vegetation. Adults are most frequently found in the spring, from March through to June. The species is widespread but locally distributed in southern England, with most records occurring south of an imaginary line drawn from the Wash on the east coast to the Bristol Channel in the west. The beetle is widely distributed if infrequent in Norfolk. On the 2022 survey, the species was recorded at Broomscot Common where singletons were sieved from a fen litter heap and from vegetation debris at the edge of the main ditch near 'Pond 1' on April 18 and at Scarfe Meadows, one was sieved from vegetation litter at the edge of 'Ditch 2' near the field gate on April 12 and another was recovered from pitfall traps along 'Ditch 2' on June 14.

Stenolophus teutonius – a ground beetle

Status: [Nationally Scarce (NS), IUCN Least Concern]

This strikingly-coloured black and orange predatory species is typically found on bare ground at the edges of water, in gravel pits and around newly-created pools on sandy substrates. In Britain it is found in England mainly south of an imaginary line drawn from the Wash on the east coast to the Bristol Channel on the west coast, with the main swathe of distribution in the south-east, from Dorset through Hampshire, the Thames estuary and East Anglia. It has also been recorded from south Wales. The species is probably expanding its range Nationally and may no longer merit the status of Nationally Scarce. On the 2022 survey, an adult was recovered from pitfall traps at Scarfe Meadows along the edge of 'Ditch 2' on June 14 and at Broomscot Common one was sieved from a grass tussock on November 27, 2017.

Stenus butrintensis – a rove beetle

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

This elongate black predatory rove beetle is found in wetland habitats, usually at the edge of rivers and lakes and is invariably swept from tall emergent plants at the water's edge. It favours *Typha*. Its distribution is scattered in east, central and northern England and Wales. In Norfolk, it is very localised. On the 2022 survey, six were swept from tall vegetation flanking 'Ditch 1' at Scarfe Meadows on April 12 and a single female was swept here also, on June 14.

Tabanus maculicornis – Narrow-winged Horsefly

Status: Nationally Scarce (NS), IUCN Least Concern

This is a large, mainly dark horsefly, characterised by the narrow wing alulae and the extensively orange antennae. It is widespread in the southern half of England and Wales, where it frequents mainly wooded habitats, usually in the vicinity of wetland features such as streams, marshy grassland or seepages. The larvae live in the saturated ground layer of grassland/wetland and are predatory on smaller soft-bodied invertebrates. Adult females attack mammals to take a blood meal. Like other *Tabanus* the present species alights on the legs of its host, which at LOHP is likely to be the grazing cattle. Males do not bite. On the 2022 survey, an adult was swept at Scarfe Meadows on June 9.

Lichen Heath/Heathland short-turf Species

Amara lucida – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small ovoid bronze ground beetle is most often encountered in coastal regions of England and Wales where it inhabits sandy areas such as dune systems and is also found on coastal shingle. There is however, a cluster of records from the Breckland region and environs in East Anglia and other scattered inland records, mainly in the east of England. The larvae are predatory, whereas the adults are phytophagous, feeding on seeds. On the 2022 survey, adults were recovered from the breck heath pitfall trap lines at Broomscot Common on May 3 (6 adults), June 14 (16 adults) and July 15 ('many' adults).

Amara montivaga – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

LOHP Invertebrate Survey 2022

This moderately large oval bronze-metallic ground beetle is a seed-eater, associated with open sandy or chalky sites in early succession (e.g. post-industrial and recently disturbed) and those with sparse ephemeral vegetation communities. It appears to be a recent immigrant to the UK, first recorded in 1934 and now widely distributed across southern England, with the majority of records in the south-east. There are also a small number of records in Wales and in Scotland. In Norfolk, the species is widespread and fairly frequently recorded in suitable habitat. On the 2022 survey, a single beetle was recovered from pitfall traps in breck heath at Broomscot Common on June 14.

Anania verbascalis - Golden Pearl

Status: Nationally Scarce Notable B, IUCN status not yet evaluated

Habitats in which this grass moth is found include breck heath, open forestry plantations and vegetated shingle, where the larva feeds on wood sage. The species is single brooded with adults usually observed between mid June and July. Its British distribution is predominantly south-eastern. In Norfolk, the main population centres are in the breckland region, north-west Norfolk and the Broads. On the 2022 survey, the species was recorded at the Broomscot Common moth traps on July 11/12.

Arenocoris fallenii – Fallen's Leatherbug

Status: Nationally Scarce (NS), IUCN Least Concern

This is a ground-dwelling species that feeds on seeds of common stork's-bill *Erodium cicutarium* where the food-plant grows in sandy short turf grassland or on sparsely-vegetated ground on free-draining substrates. The species is most often encountered by searching beneath the basal rosettes of the plant or by pitfall-trapping in suitable habitat. Its distribution centres primarily on East Anglia, the south-east of England and coastal south Wales, although there are odd outlier records elsewhere in England and Wales. On the 2022 survey, the bug was recorded at Broomscot Common on the breck heath area, with an adult in pitfall traps on June 14. An adult was also recorded here on July 29, 2019.

Atomaria scutellaris – a silken fungus beetle

Status: [Nationally Rare (Red Data Book RDBK), IUCN status not yet evaluated]

This is a diminutive yellow-brown beetle which usually has distinctive but diffuse pale patterning on the wing cases. It was first recorded in Britain from the Scilly Isles in 1968 and has since expanded its range to include extensive swathes of the southern and eastern coastlines of England along with smaller coastal stretches in Cornwall and south Wales. There are also inland records from North Norfolk into the breckland region and also from the Thames gateway. The beetle is typically found in grassland and disturbed ground where the soil is free-draining and sandy. It is particularly frequent on dune systems. Due to its current distribution, it is unlikely to still merit its British Rarity designation. In Norfolk it is regularly recorded. On the 2022 survey, three were recorded at Scarfe Meadows on April 12.

Bodilopsis ictericus – a dung beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This yellow dung beetle is widespread but very locally distributed in England where its strongholds appear to be in East Anglia (West Suffolk and West Norfolk) and in south and south-eastern England (Berkshire, Hampshire, Surrey, Sussex and Kent). The species is rare in Scotland and Wales. It is found on pasture on free-draining chalky or sandy soils, including grazed sand dune systems, heathland and breck grassland where it is associated with exposed and fairly dry sheep, horse and cattle dung mainly, but it is also rarely found in rabbit and fox dung. Adults have been recorded mainly from July to September. At the LOHP sites, the species was found at Broomscot Common in sheep dung on June 30, 2017. Its presence at the site is likely to be dictated by the grazing regime, so its absence in 2022 might be due to the temporary cessation of sheep-grazing in this current year.

Brachypera dauci – a weevil

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This is a moderately large, distinctive attractively-patterned weevil that is found in sandy places in grassland and in dunes and on disturbed ground where it feeds on common stork's-bill *Erodium cicutarium*. The larvae feed externally on the foliage whilst adults are often found at the base of the food-plant. The species usually requires large plants in open situations. In Britain it is found primarily in coastal regions of England and Wales, with the exception of a cluster of records in the East Anglian Brecks and inland also in north-west Norfolk. On the 2022 survey, 19 adults were recovered from pitfall traps on the breck heath at Broomscot Common on May 3.

Cerceris quinquefasciata - Five-banded Weevil Fox

Status: Nationally Rare (Red Data Book 'RDB3 - Rare'), IUCN status not yet evaluated, UK BAP NERC S. 41 Species of Principal Importance in England

LOHP Invertebrate Survey 2022

This black and yellow-banded solitary wasp is associated with dry open sandy situations. Although widely distributed in southern/south-eastern England, this is currently a relatively rare species with modern records only from Kent, Essex, Suffolk, Norfolk and Oxfordshire. Its main strongholds appear to be The Breckland regions and the Suffolk Sandlings of East Anglia. Adults visit flowers of creeping thistle and bramble for food sources. The wasp nests in loose 'colonies' in dry open sandy situations such as tracks and pathways, often where the sand is compacted. They stock the nests with prey items for the developing larvae, which include small weevils of the genus *Sitona* and the family Apionidae. The species is itself preyed upon by the ruby-tailed wasp parasitoid *Hedychrum niemelai*. The adult flight season is from mid-July to late August. On the 2022 survey, three males were swept off flowering fool's watercress *Apion nodiflorum* along the main ditch at Broomscot Common on July 15.

Chilothorax distinctus – a dung beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a yellow dung beetle with black dash markings on its wing cases. It is found on grazed pasture on sandy soils, in various types of dung and vegetable debris, but possibly with a preference for horse dung. The beetle is locally distributed in England with a distinct bias for the eastern half of Britain. The distribution extends up into Scotland. The species is particularly well-represented on free-draining substrates in East Anglia, its probable main stronghold Nationally. On the 2022 survey, an adult was recovered from the breck heath pitfall trap lines at Broomscot Common on May 3.

Dasypoda hirtipes – Pantaloon Bee

Status: Nationally Scarce, IUCN status not yet evaluated

The Pantaloon bee's name is derived from the appearance of the expanded pollen brushes on the hind legs of the female bee. The species is most often found in coastal and heathland habitats, where the females excavate nest cavities in sandy substrates. They often nest 'colonially', although within the colony each female tends to their own nest. The bee favours Asteraceae as foraging sources of nectar and pollen, in particular yellow-flowered species such as ragwort *Senecio sp* and common fleabane *Pulicaria dysenterica*. The flight period of adults is from June to late August. Its distribution is mainly around the coastal fringes of south-east England and Wales, with clustered inland records around the Thames Gateway and the East Anglian breckland regions. On the 2022 survey, several foraging individuals were swept in grassland close to the dipping pond 'P1' at Broomscot Common on July 15.

Eulamprotes wilkella - Painted Neb

Status: Nationally Scarce Notable B, IUCN status not yet evaluated

The larvae of this minute moth feed on ground mosses in habitats such as grey dunes and breck grassland, where the substrate is free-draining. It is distributed very locally in many coastal areas of Britain, particularly in south and eastern England. There are two generations annually, with adults generally being observed in the field between June and August. In Norfolk, the species is mainly found in coastal and breckland regions. On the 2022 survey, the species was recorded at the Broomscot Common moth traps on July 11/12.

Euxoa tritici - White-line Dart

Status: no British Rarity status, IUCN Vulnerable

This is a noctuid moth of varied habitats including heathland, downland and coastal dunes. The larvae are polyphagous on a range of herbaceous plant species. Adults are usually recorded between July and August. Although still widespread throughout its range, it is restricted to the coastal fringe in many regions and the species is experiencing a recent steep decline, hence its designation under IUCN criteria. In Norfolk, the distribution is very much biased towards coastal and breckland regions. On the 2022 survey, the species was recorded at the Broomscot Common and Scarfe Meadows light traps on July 11/12.

Glocianus pilosellus – a weevil

Status: Nationally Rare (Red Data Book RDB2 = 'Vulnerable'), IUCN status not yet evaluated

This is a small black weevil of grassland on sand dunes, downland, sandy habitats and disturbed ground. The food-plant is lesser dandelion *Taraxacum laevigatum*. The larvae probably feed in the flower-heads. In Britain, its distribution covers south and eastern England and South Wales only. It is relatively scarce in East Anglia where it is known mainly in the breckland and in breck grassland sites in north-west Norfolk. In the surveyor's experience, adults have been found in the field between April and June and in August and September. On the 2022 survey, a singleton was recovered from pitfall traps on breck heath at Broomscot Common on May 3.

Gymnetron rostellum – a weevil

LOHP Invertebrate Survey 2022

Status: Nationally Scarce (Notable A), IUCN status not yet evaluated

This is a small nondescript dark weevil found in disturbed ground habitats, sand pits, roadside verges and field margins. It is probably associated with speedwells *Veronica sp* as a food-plant. The species is mainly found in eastern England, with scattered outliers elsewhere. It is currently very scarce in East Anglia, where it is known from the brecks and the coastal regions. On the 2022 survey, two adults were swept at Scarfe Meadows, from the north pasture on April 12.

Harpalus anxius – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small black ground beetle feeds on seeds in short turf high insolation habitats, typically e.g. on fixed dune systems, disturbed sandy sites, breck heath etc. It is widespread in Britain, particularly around the coast of England and Wales, and also found inland in the south of its range, predominantly in the breckland region of East Anglia and the Thames Gateway. In Norfolk it is regularly found on the coast and from the brecks north-west to the north-west Norfolk coast. On the 2022 survey, adults were recovered from the breck heath pitfall trap lines at Broomscot Common on May 3 (13 adults), June 14 (16 adults) and July 15 (11+ adults).

Harpalus smaragdinus – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This moderately large seed-eating ground beetle is typically found in high-insolation habitats with free-draining soils, such as chalk pits, sparsely-vegetated arable margins and breck heath. In Britain, it is found south of an imaginary line drawn from the Humber estuary on the east coast through north Wales in the west. Many records are coastal outside of the south-east part of its range where it is also found inland. There is a particularly strong representation of the species in the Norfolk breckland. On the 2022 survey, a single individual appeared in pitfall traps on breck heath at Broomscot Common on June 14.

Hedychrum niemelai – a ruby-tailed wasp

Status: [Nationally Rare (pRDB2 (provisional status = Vulnerable), IUCN status not yet evaluated]

This is a brightly coloured and spectacular ruby-tailed wasp found in open, sandy localities such as dunes, quarries and tracks and pathways. As a parasitoid, its hosts are weevil-wasps or digger-wasps; species of the genus *Cerceris*. The ruby-tailed wasp seeks out nests of the host and lays its eggs in the nest. The larvae hatch and consume the grubs of the host. For nectar sources, the wasp is known to visit golden-rod, woundwort and yarrow. The species is found in southern England with records from Cornwall to Kent and north to Oxfordshire, Norfolk and Lincolnshire. It was assessed as being of provisional Red Data Book status by Steve Falk in 1991, but the BWARS website considers that it's current status should be downgraded. In Norfolk, the species' distribution centres around The Brecks, with outlying records to the north and east. The species wasn't recorded on the 2022 survey. However, a male was swept at Broomscot Common on July 29, 2019.

Hippodamia variegata – Adonis Ladybird

Status: [Nationally Scarce (Notable B), IUCN status not yet evaluated]

This is a medium-sized brick-red ladybird with a varying number of black spots and characteristic black and white patterning on the thorax. Like most ladybirds, it is a predator of aphids. Its distribution extends throughout southern, eastern and central England as far north as Cumbria and Tyne and Wear. In Cornwall, Wales and Scotland it becomes rather more scarce. It was formerly only commonly found on the English coast, but since the 1980s, it turned up increasingly at inland post-industrial sites and other areas of short-turf grassland and disturbed grassland habitat, so although formerly considered Nationally Scarce, it is now so regularly encountered in suitable habitat, that it can only qualify as locally distributed at such time as its British Rarity status is re-evaluated. The beetle was recorded on the 2022 survey at Broomscot Common on July 12, and was also recorded at this site on July 29, 2019.

Hypsosinga albovittata – an orbweb spider

Status: Nationally Scarce (NS), IUCN Least Concern

This small predatory orbweb spider typically inhabits heathland and chalk grassland where it constructs a web close to the ground. The species is widely distributed throughout Britain but very localised within its range. Adult spiders are usually observed in late spring and early summer. In Norfolk, the majority of records are centred on the breckland region. On the 2022 survey, an adult male was recovered from pitfall trap samples on breck heath at Broomscot Common on May 3.

Megalonotus praetextatus – a groundbug

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

LOHP Invertebrate Survey 2022

This is a distinctive medium-sized glossy dark ground bug with pale wing markings. It requires well-drained soils with a warm, sheltered aspect such as those in sand dune systems, gravel pits, sandy grasslands and breck heath. In such situations it is frequently associated with stork's-bill *Erodium*. Adults are active in the field between April and September. The bug is predominantly southern and coastal in south and east England and South Wales, but with inland records from the Breckland and other areas of southern England. Prior to the 2022 survey, an adult was found in typical habitat on the breck heath at Broomscot Common on July 29, 2019.

Megalonotus sabulicola – a groundbug

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This is a small nondescript brown ground bug with pale tibiae which is found in sandy habitats on sparsely-vegetated ground, most typically in breck grassland and disturbed sites. The food-plant is probably common stork's-bill *Erodium cicutarium*. The majority of records are from the English south coast, south-east England and East Anglia. On the 2022 survey, an adult was found in pitfall traps on the breck heath at Broomscot Common on June 14, and prior to the survey, an adult was recorded at the same site on October 11, 2021.

Nysius graminicola – a ground bug

Status: [Red Data Book 3 (Rare), IUCN status not yet evaluated]

This small brown ground bug was first discovered in Britain at Studland Bay, Dorset, in the 1980s, when it was assigned RDB status. It has since spread and rapidly so in very recent years, such that it is now distributed across at least nine Vice-Counties in south-east England and East Anglia. The species is characteristic of sun-exposed weedy, disturbed ground, such as arable verges and post-industrial brownfield sites, Although essentially a ground-dwelling insect, it can be abundant on flower-heads of various plant species, in warm weather. Adults and nymphs feed on seeds and developing fruits and the adults probably overwinter. Due to its recent expansion in range, it is almost certainly no longer of Red Data Book status in Britain. On the 2022 survey, an adult was swept at Broomscot Common on September 5, possibly representing a first county record for Norfolk.

Odontoscelis lineola – Lesser-streaked Shieldbug

Status: Nationally Scarce (NS), IUCN Least Concern

This rounded brown and yellow bug is found on coastal sand dunes in south England and south Wales, and at sandy heathland sites in Kent, Surrey and East Anglia (mainly in The Breckland). The nymphs feed on Common Stork's-bill *Erodium cicutarium* and overwinter, becoming adult in the spring and mating in June and July. On the 2022 survey the bug was pitfall-trapped on the breck heath at Broomscot Common, with two adults here on May 3 and two also on June 14.

Ophiola decumana – a leafhopper

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This small brown leafhopper is associated with sparsely-vegetated and disturbed-ground habitats where it is known to feed on sheep's sorrel and knotgrass. Adults have been recorded in most months of the year, but in this surveyor's experience, they are most frequent between June and September. The species has a highly localised distribution in England and Wales. On the 2022 survey, five adults were recovered from pitfall traps in breck heath at Broomscot Common on June 14.

Olibrus millefolii – a shining flower beetle

Status: Nationally Scarce (Notable B), IUCN Least Concern.

This minute convex, shiny black beetle is found in grassland, heathland and hedge banks where yarrow *Achillea millefolium* grows. The larvae develop in the flower-heads and adults, which are found mainly between May and September, feed on pollen in the flowers. In Britain, it is widespread and very local in southern England and Wales. It is perhaps most frequent in East Anglia where the food-plant is found on free-draining sandy soils. The beetle was recorded at Broomscot Common on July 29, 2019.

Olibrus pygmaeus – a shining flower beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This minute convex, shiny black beetle inhabits grassland, including marshland, and disturbed ground. The larvae probably develop in the flower-heads of Common Cudweed *Filago vulgaris* and adults feed on pollen in the flowers. The species is mainly recorded from the eastern half of England, with the majority of records from East Anglia where it is well-represented. Along with the last species, this beetle was recorded at Broomscot Common on July 29, 2019.

LOHP Invertebrate Survey 2022

Oxypoda lurida – an aleocharine rove beetle

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

This is a small ground-dwelling ferruginous rove beetle that is associated with short turf habitats and sparsely-vegetated ground on free-draining substrates. Examples of habitats include breck heath, fixed dune systems and rabbit-grazed chalk grassland. The species is very widely distributed in England, Wales and Scotland with a possible preference for coastal locations (?dunes), although inland records are also well-represented. On the 2022 survey, a single specimen was recovered from the breck heath pitfall traps at Broomscot Common on May 3.

Oxytelus piceus – a rove beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small rove beetle has distinctive yellow elytra and is separated from a superficially similar, more common species *O. laqueatus* by the size of the eyes of the female and by underside characteristics on the abdominal segments of the male. The species is found in herbivore dung, apparently favouring dung on sandy soils in short-turf grassland. It is very locally distributed in England and Wales north to Lincolnshire. There are very few records of the species outside of an apparent stronghold in Norfolk where it occurs fairly reliably on grazed breck heath. In the author's experience, adults are active in the field between May and September. On the 2022 survey a single male was found at the Scarfe Meadow light traps on the morning of July 12.

Pediasia contaminella - Waste Grass-veneer

Status: Nationally Scarce Notable B, IUCN status not yet evaluated

As its name suggests, this small grass moth inhabits disturbed ground, dry grassland, heathland and brownfield habitat. Its distribution in Britain is largely south-eastern. The species is single-brooded with adults recorded between June and October. The larvae feed on Poaceae, including sheep's fescue. In Norfolk, the species is widely distributed and relatively frequent. On the 2022 survey, the species was recorded at the Broomscot Common moth traps on July 11/12.

Pempelia genistella - Gorse Knot-horn **Fig. 4**

Status: Nationally Scarce Notable A, IUCN status not yet evaluated

This pyralid moth inhabits heaths and downs, primarily in coastal regions, where the larvae feed in a silken web on gorse. The species has a southern and eastern range in Britain although it is also known from the south coast of Wales. Adults are mainly recorded between late June and September. It was recorded new to Norfolk in 2019 and remains scarce to date, with only a handful of records. On the 2022 survey, three adults came to light at the Broomscot Common moth traps on the evening of July 11.

Rhopalus parumpunctatus - a rhopalid bug

Status: Nationally Scarce (NS), IUCN Least Concern

This is a reddish-brown bug that can be differentiated from similar species in the genus by the abdominal markings, the form of the scutellum and the dark spots on the wing veins. It is highly active in dry, sandy habitats such as grey dunes and breck heath. The adults are flower-visiting and there is an association with many plant species, particularly Mouse-ear *Cerastium*. The bug is locally distributed east of an imaginary line drawn from the Wash on the east coast to west Dorset on the south coast. It is also recorded from the Welsh coastline. Adults are recorded mainly between May and September. On the 2022 survey, an adult was swept in the east section of the fen at Broomscot Common, on July 12. The habitat is atypical for the species, although it is probable that it was either flower-visiting here or seeking an area of higher humidity during the summer burn-out at the site.

Saprinus aeneus – Bronze Mirror Clown

Status: Nationally Scarce (NS), IUCN Least Concern

This is a beetle of open short turf habitats on free-draining soils, including sand dunes, breck grassland and heathland. It is almost always associated with carrion and dung. All active stages of the beetle predate the developing stages of other invertebrates in decaying organic material. Adults have been recorded between April and October. It is a widely distributed species Nationally, but has declined historically. Currently, it is most frequent along the coastal fringes of England and Wales, but it also maintains a significant stronghold inland in and around the Breckland region of East Anglia. On the 2022 survey, the beetle was recorded from a rabbit carcass on the edge of breck heath at Broomscot Common on May 3 and prior to this survey, an adult was sieved from a dead hedgehog in the same area on August 21, 2017.

Saprinus planiusculus – Coastal Clown

LOHP Invertebrate Survey 2022

Status: Nationally Scarce (NS), IUCN Least Concern

This is a beetle of open short turf habitats on free-draining soils, including sand dunes, breck grassland and heathland. It is almost always associated with carrion and dung. All active stages of the beetle predate the developing stages of other invertebrates in decaying organic material. Adults have been recorded between April and October. It is a widely distributed species in England and Wales, but has declined historically. Currently, it is most frequent along the coastal fringes, but it also maintains a significant stronghold inland in and around the Breckland region of East Anglia. On the 2022 survey, two adults were sieved from a rabbit carcass on the edge of breck heath at Broomscot Common on May 3.

Sibinia primita – a weevil

Status: [Nationally Scarce (Notable B), IUCN status not yet evaluated].

This small orange-brown ground-dwelling weevil, is typically found in post-industrial habitats such as sand-pits and quarries but also on coastal shingle, heathland and downland where its food-plant procumbent pearlwort *Sagina procumbens* can be found. The beetle is widespread but local in the southern half of England and also in parts of Wales but there are also more northerly records in England, as far as Lancashire and Yorkshire. Adults occur mainly from April to September. As at October 2021, this species had been recorded in 104 hectads of the National Grid, since 1990 and therefore no longer merits Nationally Scarce designation, although this has yet to be formally acknowledged. On the 2022 survey, a single adult was recovered from pitfall traps on breck heath at Broomscot Common on May 3.

Spathocera dalmanii – Dalman's Leatherbug **Fig. 7**

Status: Nationally Scarce (NS), IUCN Least Concern

This distinctive leatherbug is typically found in short turf habitats such as breck heath, grey dunes and sandy, rabbit-grazed acid grassland sites, where the nymphal stages feed on the stems of sheep's sorrel *Rumex acetosella*. The adults are ground-dwelling and are present in the field between mid-August and late May or early June. The species is currently undergoing significant range expansion and though once a rarity in Britain, confined more or less to the south and south-east coastal counties, it has spread northwards and is now present throughout much of East Anglia also. On the 2022 survey, a single adult was recovered from pitfall traps on breck heath at Broomscot Common on June 14.

Tychius pusillus – a weevil

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated.

This minute grey weevil with yellow tibiae is associated primarily with short turf grassland and disturbed ground sites such as road-side verges and brownfield. Its food-plant is lesser trefoil *Trifolium dubium* although it may also possibly feed on other clover species. In Britain adults have been recorded from May to September. In Britain, its distribution extends through southern England, East Anglia and the West Midlands, with all records occurring south of an imaginary line drawn between The Wash in the east and the Severn estuary in the west. It is widespread but locally distributed throughout this range. Outside of the 2022 survey, an adult was recorded at Broomscot Common on July 29, 2019.

Zelotes electus – a ground spider

Status: Nationally Scarce (NS), IUCN Least Concern

This spider is found at ground level in moss and litter. Its main habitats are dunes, sandy heathland and breck heath and it is mostly restricted to coastal sites around Britain. Adults of both sexes are found mainly from late spring to mid-summer, but occasionally into the autumn. At the LOHP sites in 2022, three adult males were recovered from pitfall traps on breck heath at Broomscot Common on May 3 and a further three males, on June 14.

Grassland/Verge generalist Species

Aleochara brevipennis – a rove beetle

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

This small and nondescript brown rove beetle is an inhabitant of the ground layer in grassland habitats and is usually recorded either in pitfall traps or by sieving grass tussocks. Both the adults and the larvae are probably predatory on smaller invertebrates. The adults have been found all year round. The species is widely distributed but local in Britain. Some sources suggest that there have been recent declines, particularly in southern England. On the 2022 survey, the species was recorded in pitfall traps at Scarfe Meadows with singletons in the north and the south-west pastures on April 25, nine individuals in the north meadow traps on June 14 and a single beetle in the north pasture traps on September 9.

LOHP Invertebrate Survey 2022

Amarochara forticornis – an aleocharine rove beetle

Status: Nationally Rare (Red Data Book 'K' – Insufficiently Known), IUCN status not yet evaluated

This, like the preceding species is another small rove beetle of obscure ecology which is significantly rare in Britain. Hyman (1994) describes the species as being 'possibly subterranean in habit' with records from coastal shingle, sandpits and an estuary. He cites records from Wiltshire, Isle of Wight, East and West Kent, Surrey, Berkshire and West Suffolk before 1970 and only East Sussex in the period since 1969. Roger Booth (pers comm) has seen the species once; 'in Kent, in a sandy area near an old gravel pit'. This author has found the species by pitfall-trapping in short turf in Cambridgeshire in 2021 and other recorders (Mark Telfer, Martin Luff *pers comm et. al*) have found the beetle in Devon, North Somerset and Bedfordshire. It may be increasing its range. On the 2022 survey, an individual was sieved from a *Deschampsia* tussock on November 16. This represents the second record for Norfolk, the first being earlier in the year from Dickleburgh Moor.

Cassida prasina – a tortoise beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a green tortoise beetle with red scutellary marks. The name tortoise beetle refers to the way in which the insect withdraws its legs under a protective 'carapace' when threatened. It is found in grassland and disturbed ground where the food-plant yarrow *Achillea millefolium* grows. The larvae are free-living on the plant. The species is locally distributed throughout southern, south-eastern and Midlands England. Outside of this area, it is decidedly scarce and predominantly coastal with records from Wales, northern England and Scotland. On the 2022 survey, an adult was swept in the fen area of Broomscot Common on April 14, and prior to the survey, the species was also recorded at Broomscot Common on July 29, 2019.

Chiasmia clathrata - Latticed Heath

Status: no British Rarity status, IUCN Near Threatened

This distinctive day-flying moth is typically observed in open habitats, including dry grassland and heathland where the larval food-plants clovers, trefoils and lucerne grow. Adults are usually recorded between May and September, there being two generations of adults annually. Distributed through Britain, the moth is currently in decline, hence the designation under IUCN criteria. In Norfolk, the species remains common and widely distributed in suitable habitats. On the 2022 survey, adults were observed at light traps at both sites on July 11/12, and an adult was also observed earlier in the year at Scarfe Meadows on June 9.

Coenonympha pamphilus – Small Heath Butterfly

Status: British Rarity – Least Concern, IUCN Vulnerable

The familiar Small Heath butterfly inhabits rough dry grassland and heath sites where its larvae feed on grasses, particularly bents and fescues. The adults flight period extends from mid-May to mid-September, with at least two generations produced annually. Small Heath was designated as Near Threatened at the time of the previous LOHP Invertebrate Survey in 2019, but has since been re-evaluated (2021) as Vulnerable due to continuing significant decline of the National population. On the 2022 survey, an adult was recorded at Broomscot Common on September 5.

Ethmia quadrillella – Comfrey Ermel

Status: Nationally Scarce (Notable A), IUCN status not yet evaluated

This is a small micro-moth which is attractively black and white patterned. It inhabits fens and other wetlands, damp open woodlands, gardens, banks and waste ground. The larval food-plant is comfrey *Symphytum sp*, although it is also known to feed on green alkanet *Pentaglottis sempervirens*. The species is locally distributed in England, mainly in the south-east, East Anglia and the north and east Midlands regions. There are outlier records as far north as Yorkshire. It is well-recorded in fenland habitats in Norfolk. On the 2022 survey, an adult was present in the Scarfe Meadows moth traps on the morning of July 12.

Evergestis limbata - Dark Bordered Pearl

Status: Nationally Scarce Notable B, IUCN status not yet evaluated

This grass moth was first recorded as British in 1993, but it is considered to be a migrant in many regions. It is found as an adult between June and September. The larval food-plants are garlic mustard and hedge mustard where these grow in grassland and verge habitats. In Norfolk, where it was first found in 2019, it is largely eastern in distribution. On the 2022 survey, the species was recorded at the Scarfe Meadows moth traps on July 12.

Megalonotus antennatus – a groundbug

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated.

LOHP Invertebrate Survey 2022

This brownish, ground-dwelling true bug is found very sparsely in southern England. It is recorded from diverse habitat-types and substrates which include woodland rides, dry and wet grassland, disused clay workings and limestone quarries. The bug is believed to feed on seeds, although no specific plant species-associations are listed in the JNCC review (Kirby 1992). In this surveyor's experience, it is most easily collected by grubbing and sieving and by pitfall-trapping as it rarely strays from the ground. On the 2022 survey, an adult was found close to 'Ditch 1' at Scarfe Meadows on June 14.

Rhinocyllus conicus – a weevil

Status: [Nationally Scarce (Notable A), IUCN status not yet evaluated]

This medium-sized elongate grey weevil is found in grassland where it is phytophagous on spear thistle *Cirsium vulgare* and musk thistle *Carduus nutans*. The adults are active from April to September and are known to hibernate in the turf mat and under bark. Until relatively recently, this species was more-or-less confined geographically to the south coast of England, but it has since expanded its range significantly, colonising inland counties in England and is certainly increasing. The species is found as far north as Yorkshire and has also been recorded in Wales. As of October 2022, the species had been recorded from more than 200 post-1990 hectads in Britain, rendering its British Rarity status invalid, although this has yet to be formally acknowledged. On the 2022 survey, the species was found at Broomscot Common on June 14.

Syntomus truncatellus – a ground beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small black predatory ground beetle inhabits open grassland sites such as grass verges, field edges and grey dunes. Its main area of distribution is in eastern England although it is distributed throughout England and Wales with scattered records north to Yorkshire and outliers in Scotland. It is particularly common in Norfolk. On the 2022 survey, the species was recorded at Scarfe Meadows by sieving a grass tussock in the south-west pasture on November 16 and the beetle was also recorded at this site previously, on June 30, 2017.

Woodland dead wood and fungi Species

Abdera biflexuosa – a false darkling beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small elongate and somewhat cylindrical beetle is mainly black, but characteristically patterned with transverse undulating yellow bars on the wing-cases. It is distributed throughout England as far as north-east England and is also found in Wales. The species is an inhabitant of ancient broad-leaved woodland, parkland, hedgerows and isolated trees. The larvae probably develop in twigs, with records from oak (mainly), ash and lime. Adults have been recorded from April to August. On the 2022 survey, the beetle was recorded at Broomscot Common where two adults were beaten off dead oak boughs at the edge of the fen area along the north perimeter of the site on June 9, and two adults were beaten off oak branches along the south perimeter of the site on July 12.

Anaspis thoracica – a false flower beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small orange-brown beetle has been found increasingly frequently in midland regions and possibly no longer merits the rarity status of Nationally Scarce. Its distribution extends from the southern English counties north to Yorkshire and Lancashire and southern Scotland. It is associated with woodland habitats where the larvae develop in dead wood. Adults are most frequently observed by beating oak and other tree and shrub blossoms and by sweeping beneath trees, between May and September. On the 2022 survey, a female was beaten off an oak on the eastern perimeter of Broomscot Common on July 12.

Aulonothroscus brevicollis - a throscid beetle

Status: [Nationally Rare (Red Data Book RDB3), IUCN status not yet evaluated]

This small and inconspicuous brown beetle can look like a seed to the uninitiated. It is found in association with ancient broad-leaved and pasture woodland where it is found specifically on oak trees. However, it is increasingly found in other situations such as in hedgerows and possibly no longer merits the Red Data Book status that it received in 1992 (Hyman, 1992). The adults are usually found in the canopy or by beating whereas the larvae probably develop in dead wood. Adults have been recorded from April to October. The species is very locally distributed in southern England with a very scattered distribution centering on East Anglia and Worcestershire/Gloucestershire with many outliers, for

LOHP Invertebrate Survey 2022

example in Wales, Warwickshire and around the Thames estuary. On the 2022 survey an adult was beaten from hedgerows at Scarfe Meadows on June 9.

Coeliodes ruber – a weevil

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This reddish-brown weevil is usually an inhabitant of broad-leaved woodland where it is arboreal, feeding on oak and possibly also hazel. It is widely distributed throughout England and Wales as far north as Cumbria and sporadically up into Scotland. In East Anglia, it is very locally distributed in suitable habitat. On the 2022 survey, an adult was beaten off oak foliage along the south fence-line perimeter at Broomscot Common on April 25.

Coeliodes transversealbofasciatus – a weevil

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

This rotund reddish-brown weevil usually inhabits deciduous woodland, pasture woodland and wooded heaths where it feeds on oaks. The eggs are laid in the oak buds and the larvae feed on the female flowers. Adults are mainly recorded between April and August. The species is widely distributed but local, in England, Wales and Scotland. On the 2022 survey, along with the previous species, this weevil was beaten off oak foliage along the south fence-line perimeter at Broomscot Common on April 25.

Hadrobregmus denticollis – a wood-boring beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This species occurs in broad-leaved woodland, pasture woodland and on isolated trees where the adults and the larvae develop in dead wood of oak, elm, hawthorn and willow amongst other tree species. Adults have been recorded throughout most months of the year. The species is found in England, mainly in the west Midlands and East Anglia. On the 2022 survey, an adult was beaten from a dead hawthorn bough protruding from the north perimeter hedgerow at Scarfe Meadows on June 9.

Thalycra fervida – a sap beetle

Status: Nationally Scarce (Notable B), IUCN status not yet evaluated

The ecology of this reddish beetle is little understood. It may be a saproxylic species in the context of its presence at sap runs of goat-moth infected trees, or alternatively, it may develop mainly in underground fungi such as truffles. It inhabits broad-leaved woodland, parkland and in Scotland, coniferous woodland. The beetle may be mainly active in the evenings. Adults have been recorded between June and September. Its distribution is widely scattered but very localised, in England and Scotland. In Norfolk it is extremely scarce, there being only a few records to date. On the 2022 survey, an adult was found at one of the Scarfe Meadow light traps on the morning of July 12.

Lissodema denticollis – a narrow-waisted bark beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small brown beetle with pale reddish-yellow markings is found in woodland, pasture woodland, hedgerows and on isolated trees, usually in dead wood or under bark, but also by sweeping under and around trees. It is found on a variety of tree species, but with a probable preference for ash. The larvae probably develop in the dead wood. The species is widespread but local in England. On the 2022 survey, an adult was recorded by beating trees at Broomscot Common on June 9.

Magdalis cerasi – a weevil

Status: [Nationally Scarce (Notable B), IUCN status not yet evaluated]

This dull black weevil is distributed locally throughout England and Wales where it occurs in woodland, scrub and hedgerows on oak and also on shrubs of the Rosaceae, particularly hawthorn *Crataegus monogyna*. The larvae feed inside branches and dead twigs. Adults can be found between May and August. As of October 2022, the species had been recorded from more than 100 post-1990 hectads in Britain, rendering its British Rarity status invalid, although this has yet to be formally acknowledged. On the 2022 survey, an adult was beaten off hawthorn at Broomscot Common on June 9.

Marpissa muscosa – a jumping spider **Fig. 6**

Status: Nationally Scarce (NS), IUCN Least Concern

This distinctive, large jumping spider is usually encountered behind loose bark or on fence palings, except on the south coast where it may inhabit dry stone walls. Its distribution is centred on the southern regions of East Anglia, through the Thames Gateway into south-eastern England. Elsewhere in Britain, it is very scarce, with a few scattered outlier populations. In Norfolk, it is recorded from the breckland region. On the 2022 survey, spiders were observed regularly

LOHP Invertebrate Survey 2022

on the gateway posts at the entrance to Scarfe Meadows, with records in April, June, September and October. It was also recorded here in June 2017.

Mordellistena variegata – a tumbling flower beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This is a small tumbling flower beetle that has a typically elongated terminal abdominal segment and a jumping habit when captured or disturbed. The beetle is a fuscous brown colour and is patterned with darker markings. The larvae develop in decaying wood. Adults are most often encountered visiting flowers such as umbellifers in and at the edge of 'wooded' habitats. The species is primarily distributed in midland, south-east and eastern England, being very scarce elsewhere in the country. Adults are active in the field between July and September. On the 2022 survey, the beetle was recorded at Broomscot Common where one was beaten off dead oak boughs at the edge of the fen area along the north perimeter of the site on July 15, and one was beaten off oak branches along the south perimeter of the site on June 9.

Orthoperus nigrescens – a minute hooded beetle

Status: [Nationally Scarce (Notable B), IUCN status not yet evaluated]

This minute brown beetle is usually found in woodland, often in association with decaying organic matter, such as fungoid wood. Adults have been recorded in most months of the year. The species is considered to be perhaps the commonest member of the genus with a widespread distribution, so its British rarity status is likely to be invalid (*M.G.Telfer pers comm*). On the 2022 survey, the species was recorded at Broomscot Common on June 9.

Platystomos albinus – a fungus weevil

Status: Nationally Scarce Notable B, IUCN status not yet evaluated.

This is a large, cryptically-coloured black and white weevil which despite its appearance as a bird-dropping, is spectacularly marked and very conspicuous when active. It is associated with dead wood of hornbeam, oak, hazel, ash and hawthorn during its larval development. The beetle has been recorded primarily from deciduous and pasture woodland with a distribution which embraces southern England northwards to Westmorland. Currently, it is widely distributed, but somewhat local in Norfolk. On the 2022 survey, one was beaten off a large ash branch lying on the ground beneath a tree, in the south-east pasture at Scarfe Meadows, on June 9.

Sphindus dubius – a cryptic slime-mould beetle

Status: Nationally Scarce Notable B, IUCN status not yet evaluated.

This minute black beetle is primarily associated with pasture and deciduous woodland habitats where it develops in myxomycetes (slime moulds) on trees. Adults have been recorded on oak, beech, pine and horse chestnut, and have been observed from May to September. The species is widespread but locally distributed in England and Wales, and is also apparently known from Scotland. On the 2022 survey, an adult was beaten off dead hawthorn and oak branches along the north perimeter of the site at Broomscot Common on July 15

Woodland/Arboreal generalist Species

Lasius brunneus – Brown Tree Ant

Status: Nationally Scarce (Notable A), IUCN status not yet evaluated

First recorded in Britain in 1923, this small ant is readily identifiable by the pale brown head and trunk contrasting with the darker black-brown gaster (abdomen). It creates nests in old mature trees and also stumps etc in hedgerows. It is perhaps mainly associated with oak. The adults feed on honeydew collected from large tree aphids although they may supplement this with small invertebrates. It has only been recorded from southern and central English counties, from Essex to Shropshire. On the 2022 survey it was encountered at both sites. At Scarfe Meadows, adults were found in an old hawthorn log on the ground on April 12 and adults were also beaten off *Salix* along the east site perimeter of the south-east meadow on June 9. At Broomscot Common, the ant was present on a willow stump at the edge of the carr/inundation area on April 18.

Nephus quadrimaculatus – a ladybird

Status: [Nationally Rare (RDB2 = Vulnerable), IUCN status not yet evaluated]

This is a diminutive dark brown species with four distinct orange patches on the wing cases. It is found in woodland, gardens and hedgerows where it feeds on coccid bugs on ivy. Adults are recorded from March and from July through to September at least. They probably hibernate in ivy vegetation. It was formerly a rare species with records only from Suffolk, but since the 1990s, it has increased in range and is now relatively frequent in south-east England and East Anglia. It has yet to be recorded from Scotland. The British Rarity status of NR (Red Data Book category Vulnerable) is

LOHP Invertebrate Survey 2022

certainly no longer applicable to the species' true distribution, but this status has yet to be formally re-evaluated. It is included here on the basis of a record on October 11, 2021, when adults were beaten off ivy next to 'Pond 2' at Broomscot Common.

Rhagonycha lutea – a soldier beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This moderately small, elongate soldier beetle with soft wing cases is distinctive in having ochraceous wings with black tips. A similar colour pattern is present in the associated common soldier beetle *Rhagonycha fulva*, but that species has a reddish rather than buff ground colour and is present in the field generally later in the season. *R. lutea* is usually associated with woodland or scrubby calcareous grassland where adults can be found from late May through to mid July. It is a predatory species. Its distribution extends through England and Wales, northwards up into Yorkshire. It has also been recorded rarely in Scotland. On the 2022 survey, an adult was recorded at Scarfe Meadows on June 14.

Tremulicerus fulgidus – a leafhopper

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

This leafhopper is a phytophage on black and Lombardy poplars, particularly where these are present in the vicinity of running water. Adults have been recorded in most months of the year, though mainly from June to October. The species is distributed very locally throughout England and into Scotland. On the survey, an adult was attracted to the light traps at Broomscot Common on the evening of July 11.

Watsonalla binaria - Oak Hook-tip

Status: no British Rarity status, IUCN Vulnerable

The larva of this moth feeds on oak foliage in woodland, parkland, hedgerows and gardens. Adults of this distinctive moth fly by day and night and have been recorded between May and September. The species is experiencing a continuing steep population decline across its range in England, Wales and south-west Scotland, although it is still relatively common and widespread, as is the case in Norfolk. On the 2022 survey, the species was recorded at the Broomscot Common moth traps on July 11/12.

Non-habitat Specific Species

Aleochara verna – a rove beetle

Status: [Nationally Rare (Red Data Book RDBK 'Insufficiently Known'), IUCN status not yet evaluated]

This small aleocharine rove beetle is found principally in dung, although it also occurs in other decaying organic matter. It is widely but locally distributed throughout Britain, although it appears to be very scarce in Scotland. There is very little information in the literature about the phenology of the species in Britain. In the surveyor's experience, adults have been recorded between April to October and in December. Welch (1997) rightly suggested that the species is probably worthy only of 'Nationally Scarce' status. On the 2022 survey, a single female was found in the breck heath pitfall traps at Broomscot Common on May 3.

Anthocomus fasciatus – a soft-winged flower beetle

Status: Nationally Scarce (NS), IUCN Least Concern

The ecology of this beetle is obscure. It has been found in a variety of habitats including woodland, gardens and fens, between March and September. The likelihood is that, along with other allied species, it develops in the stems of larger plants of rank grassland and verge habitats, but a possible association with dead wood as a saproxylic species, cannot be ruled out. The beetle is locally distributed in central and south-east England and even more-so in south-west England and Wales. On the 2022 survey, an adult was swept at the western edge of the breck heath, near gorse, at Broomscot Common on April 25.

Apterygida media – Hop-garden Earwig

Status: Nationally Scarce (NS), IUCN Least Concern

This earwig can be differentiated from the common earwig *Forficula auricularia* by the fact that the wings do not protrude beyond the wing-cases. The insect is altogether more slender in appearance than its ubiquitous relative. The species inhabits hedges, thickets and woodland edge habitats in warm localities and is restricted in its distribution in Britain, to East Anglia and the south-east. The species was not recorded on the 2022 survey, but was found in 2017 when two adult females were beaten off bramble at the entrance to Scarfe Meadows on August 21.

Atheta (s.g. Alaobia) scapularis – an aleocharine rove beetle

LOHP Invertebrate Survey 2022

Status: Nationally Scarce (Notable), IUCN status not yet evaluated

The ecology of this small rove beetle is not fully understood although it is thought that the larvae are parasitoids on glow worm *Lampyris noctiluca*. The species is very locally distributed in England, Wales and Scotland. The beetle has been recorded from a chalk quarry and on chalk downland, and from fungi and flight interception traps in ancient pasture woodland, with records between May and September and in January. On the 2022 survey, a female was sieved from grass etc beneath a dead muntjac adjacent to the fen at Broomscot Common on June 9.

Dermestes murinus – a hide beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This species plays a vital role in the late-stage decay of carcasses as the larvae (in particular) feed on the dry tissue, skin, feathers and hide. It occurs in the carrion of mammals, birds and fish. The larvae have also been found in nests of predatory birds. The beetle is widespread throughout England and Wales, but is perhaps declining except in East Anglia where it can still be found commonly. On the 2022 survey, the beetle was recorded from a rabbit carcass at the edge of the breck heath at Broomscot Common on May 3.

Grypus equiseti – Horsetail Weevil

Status: [Nationally Scarce (Notable B), IUCN status not yet evaluated]

This cryptically-coloured grey, black and white weevil occurs in a variety of grassland habitats including brownfield, verges and wetland, where it is associated with its food-plants Field Horsetail *Equisetum arvense* and Marsh Horsetail *Equisetum palustre*. The larvae feed in the stems. Adults have been observed in the field between March and September. The species is recorded widely across England, Wales and Scotland. As at October 2021, the species had been recorded from 214 post-1990 hectads of the National grid and as such, this invalidates its British Rarity status, although this has yet to be formally acknowledged. On the 2022 survey, an adult was swept from the lower pastures at Scarfe Meadows on April 25.

Opomyza punctata – an opomyzid fly

Status: Nationally Scarce (Notable), IUCN Least Concern

This small pattern-winged fly is probably associated with tall sward grassland and scrub, although the associations are not clear, as it has also been recorded from marshland, coastal dunes and heath. The larvae probably develop in grasses. Adults are recorded between July and September. It is a widely distributed species in England and Wales. On the 2022 survey, an adult was swept on September 5 at Scarfe Meadows.

Orsodacne cerasi – a ravenous leaf beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This yellow beetle occurs in deciduous and mixed woodland habitats throughout much of England and Wales. It is perhaps most frequent in the west of England. Adults feed on anthers and pollen of various flowering plants and shrubs, favouring white flowers. They are active in the field between April and September. The larvae possibly develop in oak shoots. In Norfolk, this is a relatively scarce species. On the 2022 survey, one was beaten out of the north perimeter hedgerow at Scarfe Meadows on June 9.

Tachinus flavolimbatus – a tachyporine rove beetle

Status: Nationally Scarce (NS), IUCN Least Concern

This small blackish rove beetle has a tapered abdomen and bright yellow margins to the fore-body. It is associated with open ground including gardens, fields, coastal habitats and the foreshore where it is found in a variety of decaying organic matter, including dung. Its British distribution is centred on south-east England and East Anglia. There are an increasing number of British records (well over 50), from West Norfolk, West Kent and Cambridgeshire. On the 2022 survey, a single adult was present in a pitfall trap on the edge of 'Ditch 2' at Scarfe Meadows on April 25. Prior to the survey, an adult was recorded at Broomscot Common on October 11, 2021.



Fig. 3 The 22-spot Ladybird *Psyllobora vigintiduopunctata* Scarfe Meadows (photo: Andy Brown)



Fig. 4 Gorse Knot-horn *Pempelia genistella* Broomscot Common (photo: Andy Brown)



Fig. 5 Silver Colonel *Odontomyia argentata* Scarfe Meadows (photo: Andy Brown)



Fig. 6 The jumping spider *Marpissa muscosa* Scarfe Meadows (photo: Andy Brown)



Fig. 7 Dalman's Leatherbug *Spathocera dalmanii* Broomscot Common (photo: Andy Brown)



Fig. 8 Giant Long-palp *Tipula maxima* Broomscot Common (photo: Andy Brown)

6.3 BAP Priority Species (Research Only) Lepidoptera

A number of Lepidoptera species are of National BAP Priority (Research Only) status and as such they fall under the NERC Act 2006 legislation. Species “of principal importance for the purpose of conserving biodiversity” are covered under section 41, which requires that these species need to be taken into consideration by a public body when performing any of its functions with a view to conserving biodiversity.

There is sometimes a misconception among Ecological Consultants that these BAP (Research Only) Lepidoptera species are highly significant in a conservation context. However, for the most part, they are not treated Nationally through formal individual Species Action Plans and are not intended to play a role in site protection. There is valid concern however, that these Lepidoptera have declined in the UK in the last 40 years, despite still being relatively common and widespread, so they are flagged as Priority BAP species to encourage awareness of their presence at sites and to promote recording and monitoring.

At the LOHP sites, in addition to Small Heath butterfly, Latticed Heath *Chiasmia clathrata*, Oak Hook-tip *Watsonalla binaria* and White-line Dart *Euxoa tritici* (which in any case now merit greater significance as IUCN ‘Vulnerable’ and ‘Near Threatened’ species), other Lepidoptera species which fall into the BAP Priority (Research Only) category, recorded on the 2022 survey are Blood-vein *Timandra comae*, Cinnabar *Tyria jacobaeae*, Dot Moth *Melanra persicariae*, Ear Moth *Amphipoea oculatea*, Ghost Swift *Hepialus humuli*, Knot Grass *Acronicta rumicis*, Mottled Rustic *Caradrina morpheus*, and Shaded Broad-bar *Scotopteryx chenopodiata*.

6.4 Analysis

Table 4 British Conservation Status invertebrates recorded prior to, and during, the 2022 Survey, organised by relevant habitat/microhabitat.

| Site | Aquatic (includes all W/A taxa) | Wetland Terrestrial | Total Aquatic + Wetland | Short-turf Grassland/Lichen Heath | Dead wood Specialist | Habitat generalists | Total Conservation Species |
|------------------|---------------------------------|---------------------|-------------------------|-----------------------------------|----------------------|---------------------|----------------------------|
| Scarfe Meadows | 3 | 21 | 24 | 3 | 4 | 16 | 71 |
| Broomscot Common | 5 | 9 | 14 | 32 | 6 | 19 | 85 |

From Table 4 it is evident by comparing the total numbers of invertebrates with British Rarity and IUCN Threat status for each site, that the most significant wetland assemblage in terms of rarity is from Scarfe Meadows. This total compares favourably with those for the Thelnetham Fen sites, Blo’ Norton and Betty’s Fens, from the 2021 survey which had lesser totals in this category, of 12 and 17 species respectively. However, a number of the species in this category recorded at Scarfe Meadows were recorded only at light traps and light-trapping was not carried out at the Thelnetham Fen complex wetland sites, so this might account for the differing totals.

A similarly significant high total (approx 24) of key wetland species recorded in the 2019 survey at Oak Tree Fen was undoubtedly due to extensive pitfall-trapping there which boosted the survey total. Pitfall-trapping was not carried out at Betty and Blo-Norton Fens due to the sensitivity of the habitat there, but had it been employed in the methodology, we could have expected higher totals still, than those at both Scarfe Meadows and Oak Tree Fen.

Both Scarfe Meadows and Broomscot Common have similar totals for generalists (those species inhabiting non short-sward grassland and scrub/arboreal habitats as foliage feeders). There is also little difference in the totals of conservation status dead wood specialists (saproxylics), which is not surprising as both sites have mature trees and a similar limited amount of dead wood. Neither site could be considered to be significant for their saproxylic fauna in a regional context, but these low-level assemblages make a nonetheless important contribution to the overall site biodiversity (see results of Pantheon analysis below).

LOHP Invertebrate Survey 2022

Unsurprisingly, Broomscot Common has an overwhelming majority of scarce/rare breck heath and short turf invertebrate specialists as compared with Scarfe Meadows (where the habitat is not represented), which has only three species in this category, and two of these were at moth traps, so potentially originating from elsewhere. It is worth comparing the main heath area at Broomscot Common with similar habitat at Hinderclay Fen where 17 Nationally Scarce/Rare species associated with open rabbit-grazed short turf habitat in the 2021 survey, was considered 'impressive'. The total at Broomscot is nearly double that recorded at Hinderclay lichen heath, which demonstrates the significance of this habitat for breck assemblages at this site in particular. As stated in the earlier report, this breck heath component is an important habitat within the larger LOHP site complex, situated as it is outside of the main Breckland region of East Anglia, yet proving to be an outlier of significance for its invertebrate fauna at least. It should be mentioned here that Parkers Piece has a lesser, but still noteworthy assemblage, of short turf habitat species, and produced a total of 13 key invertebrates in this category during the 2019 survey.

6.4.1 Pantheon Analysis & Interpretation

The software 'ISIS' (Invertebrate Species-habitat Information System) was developed largely by Natural England in 2006 for the purpose of analysing species composition of a surveyed locality, and interpreting this data in terms of habitat/species associations and species richness. Shortfalls in this database tool resulted in the development of a successor 'Pantheon', in 2018. This was created by The Centre for Ecology & Hydrology in association with Natural England and improves on the ISIS process by adding, amongst other criteria, associated habitats and resources and habitat fidelity scores, against each taxon in a survey list. The Pantheon database which is available as an online tool, deals with around 11,000 invertebrate species, including all of the most familiar and widely surveyed insect Orders.

In common with ISIS, the Pantheon programme is most effectively used where standardised sampling techniques have been employed in survey work. It enables comparison of resulting data from a fixed frequency of site visits over a fixed time period and could indicate whether the ecological status of a site in terms of its invertebrate fauna, is either improving or deteriorating. This interpretation tool is much less useful for the present survey and most surveys carried out by invertebrate surveyors which are based on 'snapshot' samples taken over a relatively short period or surveys that are biased towards finding the scarcer invertebrates that the site supports. Even so, it can still be a useful tool for producing a hierarchy of significance in terms of species habitat associations and assemblages at any given site and in particular for comparing habitats which are surveyed at approximately the same time of the year as each other, using approximately the same techniques and with approximately the same amount of effort. It is the main analysis tool used by invertebrate surveyors.

The scoring systems in Pantheon use species richness, threat status, British rarity and characteristic species for each broad biotope, habitat and resource. The two Pantheon generated scores used to interpret the survey findings in terms of the habitats and associated invertebrate assemblages, are 'Conservation Status' and the 'SQI' (Species Quality Index) status which themselves are defined as:

Conservation Status: threat and rarity status from published reviews. The conservation status is also used to generate the Species Quality Index. Statuses in square brackets indicate that these statuses are considered out of date and should be used with caution.

SQI: each species recorded from a site list is scored according to its conservation status and the SQI is calculated by dividing this score by the number of species in the sample and multiplying by 100. SQI's for species lists with 15 or fewer species are considered unreliable.

Pantheon, like ISIS, can identify whether a site is in a favourable or unfavourable condition. Thus if a site is considered 'favourable' in the analysis, then it can be loosely construed that the state of the habitat analysed is favourable for the indicator species which are present and for the assemblage for that habitat-type as a whole. The term can also indicate if the conservation management at a site is favourable for that particular habitat and is particularly useful when recording, for example, SSSI localities, to assess whether the habitat condition is improving or declining over a period of time.

Table 5 shows the Pantheon analysis for habitat and assemblages

LOHP Invertebrate Survey 2022

Table 5 Pantheon analysis results for Specific Assemblage Types ('SATs') at the LOHP sites Scarfe Meadows and Broomscot Common from data collated from the 2022 survey and prior to 2022, showing the number of species representing that habitat sub-category as a percentage of that assemblage in the Pantheon database, the calculated SQI value and whether the analysis gives a Favourable or Unfavourable condition for that specific habitat to support the associated species assemblage.

| Compartment | Broad biotope | Habitat | SAT | No. of species | % representation | SQI | Reported condition |
|----------------------|-----------------|---------------------------|---|----------------|------------------|--------|--------------------|
| A – Scarfe Meadows | tree-associated | decaying wood | bark & sapwood decay | 23 | | 5 114 | Favourable |
| A | open habitats | | scrub edge | 11 | | 5 127 | Favourable |
| A | wetland | acid & sedge peats | reed-fen & pools | 10 | | 9 233 | Unfavourable |
| A | open habitats | | rich flower resource | 8 | | 3 100 | Unfavourable |
| A | open habitats | short sward & bare ground | open short sward | 6 | | 3 100 | Unfavourable |
| A | wetland | marshland | undisturbed fluctuating marsh | 6 | | 16 280 | Favourable |
| A | tree-associated | decaying wood | heartwood decay | 4 | | 2 425 | Unfavourable |
| A | tree-associated | decaying wood | epiphyte fauna | 4 | | 20 100 | Favourable |
| A | open habitats | | scrub-heath & moorland | 4 | | 1 100 | Unfavourable |
| A | wetland | acid & sedge peats | moss & tussock fen | 4 | | 9 600 | Unfavourable |
| A | open habitats | short sward & bare ground | bare sand & chalk | 3 <1 | | 100 | Unfavourable |
| A | wetland | running water | riparian sand | 2 | | 3 600 | Unfavourable |
| A | wetland | marshland | open water on disturbed mineral sediments | 2 | | 5 100 | Unfavourable |
| A | | | epiphyte fauna | 2 | | 10 100 | Unfavourable |
| A | tree-associated | decaying wood | fungal fruiting bodies | 1 | | 1 100 | Unfavourable |
| Compartment | Broad biotope | Habitat | SAT | No. of species | % representation | SQI | Reported condition |
| B – Broomscot Common | open habitats | short sward & bare ground | bare sand & chalk | 30 | | 7 317 | Favourable |
| B | tree-associated | decaying wood | bark & sapwood decay | 24 | | 5 175 | Favourable |
| B | open habitats | short sward & bare ground | open short sward | 18 | | 9 117 | Favourable |
| B | open habitats | | scrub-heath & moorland | 17 | | 5 118 | Favourable |
| B | open habitats | | scrub edge | 12 | | 5 100 | Favourable |
| B | open habitats | | rich flower | 10 | | 4 100 | Unfavourable |

LOHP Invertebrate Survey 2022

| | | | resource | | | | |
|---|-----------------|-----------------------|---|---|----|-----|--------------|
| B | wetland | marshland | undisturbed fluctuating marsh | 8 | 21 | 186 | Favourable |
| B | wetland | acid & sedge peats | reed-fen & pools | 6 | 5 | 100 | Unfavourable |
| B | wetland | marshland | open water on disturbed mineral sediments | 6 | 15 | 100 | Favourable |
| B | wetland | acid & sedge peats | moss & tussock fen | 4 | 9 | 350 | Unfavourable |
| B | tree-associated | decaying wood | heartwood decay | 3 | 2 | 200 | Unfavourable |
| B | | | epiphyte fauna | 3 | 15 | 100 | Favourable |
| B | tree-associated | decaying wood | epiphyte fauna | 2 | 10 | 100 | Unfavourable |
| B | wetland | acid & sedge peats | Sphagnum bog | 2 | 2 | 100 | Unfavourable |
| B | wetland | running water | stream & river margin | 1 | 2 | 100 | Unfavourable |
| B | tree-associated | decaying wood | fungal fruiting bodies | 1 | 1 | 100 | Unfavourable |

The highlighted rows (those entirely highlighted in yellow) are those for which **any** reliability can be placed on the resulting statistics. For these data, the number of represented species meets or exceeds the lower threshold of 15. It is suggested by Pantheon that where the number falls below this minimum threshold, the statistical analysis is potentially unreliable.

The SQI score that Pantheon uses is based on the sum of the conservation scores of the British Rarity-designated species in a sample divided by the **total number of species** in that sample multiplied by 100. Generally speaking, on condition that the 'No. of species' is 15 or more, then the higher the SQI figure, the higher the status of the site for invertebrate assemblages in that habitat bracket. Pantheon works best where standardised sampling is employed at a site because in that situation, the statistical comparison between sites is at its most reliable.

It is important to view Pantheon as one of several tools to be used in combination in the process of evaluating a site and not the only route for analysis or conclusion.

A 'Favourable' result for any set of data analysed by Pantheon suggests that the specific habitat is considered to be of a high quality suitable for supporting a significant associated specialist invertebrate assemblage.

Table 5 above lists all of the habitats and habitat niches for each site that Pantheon recognises from the species data that was fed into this app. Pantheon delivers 'Favourable' condition for both sites for their tree-associated decaying wood, bark and sapwood decay, on account of the number of species representing this habitat niche at both sites, despite the number of conservation value species being relatively small for each.

Predictably, Pantheon considers a whole suite of 'breck' habitats to be 'Favourable' at Broomscot Common. Open habitats, short sward and bare ground, bare sand and chalk scores particularly highly with an impressive SQI of '317' – an accolade for the habitat present here, but also with open short sward and scrub heath (gorse) contributing significant value to the overall short turf habitat mosaic at the site. Pantheon thus provides statistical evidence that this site adequately supports a significant 'breck-type' invertebrate assemblage and in fact, the most significant by comparison, of all of the short turf habitats sampled at the LOHP complex so far.

Scrub edge habitat, although considered 'Favourable' at both sites, falls short in each with less than 15 Pantheon database-represented species being recorded and the result therefore being unreliable. However, the indication here is

LOHP Invertebrate Survey 2022

that the scrub edge habitats, *i.e.* hedgerow and perimeter scrub, at Scarfe and Broomscot respectively, are noteworthy for the assemblages that they support.

Finally, it is worth noting that the wetland habitats are considered less significant in the analysis, although once again, it could be argued that ‘undisturbed fluctuating marsh’, delivered as ‘Favourable’ at both sites, but without the threshold total of species achieved, is at least indicated as being potentially significant even if it fails to exactly qualify as such. The same could be argued for ‘open water’ at Broomscot Common.

Table 6 outlines guidelines used for assessing the significance of the site in terms of invertebrate habitats, following the guidance produced by Colin Plant Associates (now withdrawn, but in the absence of adequate alternatives is considered appropriate in this evaluation).

Table 6 Guidelines produced by Colin Plant Associates (now withdrawn) for site significance evaluation

| Significance | Description | Minimum qualifying criteria |
|--|---|---|
| International | European important site | Internationally important invertebrate populations present or containing any species protected under European legislation or containing habitats that are threatened or rare at the European level (including, but not exclusively so, habitats listed on the EU Habitats & Species Directive) |
| National | UK important site | Achieving SSSI invertebrate criteria (NCC, 1989) or supporting sustainable populations of species that are listed as Critically Endangered or supporting sustainable populations of species listed in the European Union Habitats and Species Directive or supporting sustainable populations of species listed in and generally held to fairly belong within Red Data Book category 1 (Endangered) or supporting sustainable populations of any species protected under the UK Wildlife and Countryside Act, as amended or containing important invertebrate habitats that are actively threatened nationally (Great Britain) |
| Regional (for border sites, both regions must be taken into account) | Site with populations of invertebrates or invertebrate habitats considered scarce, rare or threatened in the region | Habitat that is scarce or threatened in the region, or which is well-represented in the region but is absent outside the region, and which has, or is reasonably expected to have, an assemblage of invertebrates that includes a combination of Nationally Rare Red Data book category 3) and Nationally Scarce (former Nationally Notable categories) species amounting to at least ten such species in total or supporting sustainable populations of at least six Species of Principal Importance (SPIs) (excluding “research only” moths) |

LOHP Invertebrate Survey 2022

| Significance | Description | Minimum qualifying criteria |
|---|---|--|
| County (for border sites, both counties must be taken into account) | Site with populations of invertebrates or with invertebrate habitats considered scarce, rare or threatened in the county in question | Habitat that is scarce or threatened in the county and either contains or is reasonably expected to contain an assemblage of invertebrates including a combination of Nationally Rare Red Data book category 3) and Nationally Scarce (former Nationally Notable categories) species amounting at least five such species in total provided that these species warrant now that status which was allocated several years earlier. or which has viable populations of at least five species regarded as Regionally Scarce by the county records centres and/or field club or which has viable populations of at least five SPIs. |
| District (e.g., Unitary Authority, City, or Borough) | Site with populations of invertebrates or invertebrate habitats considered scarce or rare or threatened in the administrative District | A rather vague definition of habitats falling below county significance level, but which may be of greater significance than merely Local. They include sites for which Nationally Scarce species in the range from 1 to 4 examples are reasonably expected, but not yet necessarily recorded, sites that have 1 to 4 SPIs and sites that have an outstanding assemblage of “research only” Section 41 moths. |
| Local | Site with populations of invertebrates or invertebrate habitats considered scarce or rare or threatened in the affected and neighbouring Parishes (except Scotland, where the local area may best be defined as being within a radius of 5 kilometres | Habitats or species unique or of some other significance within the local area |
| Low significance | - | Although almost no area is completely without significance these are the areas with nothing more than expected “background” populations of common species and the occasional Nationally Scarce. |

Source: Collin Plant Associates

By using Colin Plant Associates (UK Consultant Entomologists) guidelines (Table 8) for assessing the site significance of invertebrate habitat, Broomscot Common would rank as being of high County significance, and Scarfe Meadows as being of Local significance.

Broomscot Common clearly supports a significant breck invertebrate assemblage (particularly with regard to the number of species with conservation status), but because it is in the same geographical area as the nearby breckland region of East Anglia and other areas of ‘breck’ integrity such as the region between the breckland proper and the north-west Norfolk coast, the site becomes much less significant in context. For this reason, I have hesitation in assigning **Regional** significance to the site.

7 Discussion and Recommendations

Scarfe Meadows

Discussion: The site is dominated by pasture grassland that is somewhat unremarkable in terms of its floristic diversity and therefore we could expect its phytophagous invertebrate fauna to be similarly unexceptional, although the weevil *Gymnetron rostellum* which probably feeds on speedwells and is rarely recorded in Norfolk, is a significant species here. Also noteworthy and equally scarce is the rove beetle *Alaobia scapularis* which parasitises glow worms. The hedgerows produced a small number of significant saproxylic species, not least the wood-boring beetle *Hadrobregmus*

LOHP Invertebrate Survey 2022

denticollis along the northern perimeter hedge which was perhaps the best example of hedgerow habitat on the site. The three large standing trees and the old hawthorn in the south pastures also add interest and significance to the dead wood invertebrate fauna here.

However, Scarfe is undoubtedly most important for its wetland assemblages, even though its truly aquatic invertebrates are standard fare, at least as recorded in this survey. Of particular interest are the seasonal draw down mud zone habitats of the north-south aligned ditch that bisects the south pastures, the broad margin of tall emergents that flank the main ditch that runs west to east across the site, also lined by willows and alders, and the *Juncus*-dominated inundation in the north pasture, much loved by wintering snipe. Between them, these habitats support an assemblage of noteworthy species, amongst them the wolf spider *Pardosa tenuipes*, the semi-aquatic ground beetle *Oodes helopioides*, the water scavenger beetles *Cercyon granarius* and *Enochrus nigrinus*, the rove beetle *Atheta basicornis*, the leafhopper *Stenocranus fuscovittatus*, the plant bug *Capsus wagneri*, the silver colonel *Odontomyia argentata* and the narrow-winged horsefly *Tabanus maculicornis*. With the exception of the water scavenger beetles and *Oodes*, these species are all more-or-less infrequent in Norfolk.

Recommendations: Obvious potential lies in re-establishing the old ditches that historically connected to the north-south aligned ditch that bisects the south meadow. These can be seen in Fig. 1 as traces of greener vegetation running perpendicular to the existing ditch and coursing east across the south-east pasture. They are currently represented by shallow depressions containing vegetation indicative of seasonal inundation. The capacity for these to hold water and the effects on the resulting water levels in the ditch system here are unpredictable, but it would be worth opening at least one of these channels up and monitoring the effects.

A number of relatively mature ash trees on site may in future succumb to dieback *Hymenoscyphus fraxineus*. These trees and diseased branches etc should be left in-situ as much as is possible without recourse to felling, except where there is a risk of injury, for example where the trees overhang the public footpath along the north hedgerow.

The 2022 survey found a fairly healthy dung assemblage on site. This was mainly sampled by pitfall traps deliberately placed at the edges of cattle dung on the south-west meadow during one trapping session. Direct sampling of the dung was less productive though, particularly earlier in the season and did raise the question as to whether the cattle had been treated with a nematicide around that time. It is good practice to avoid the use of endectocides as prophylactic treatments on nature reserves. In cases where intervention is required, then livestock should be treated off site and only returned once treatment has run its course and the chemicals have degraded.

On one of the visits, a tractor was on site in the south-west pasture, mowing the grassland. Whilst this is not necessarily a bad idea immediately outside of the grazing season in autumn, the timing of this operation, when grassland plants were still flowering and setting seed was ill-advised. If such operations are carried out, the timing should coincide with the end of the flowering season.

Broomscot Common

Discussion: Broomscot Common shares a similar number of scarce invertebrates associated with grassland and scrub habitats, as Scarfe Meadows. It also supports a similar number of scarce dead wood species. At Broomscot these are more oriented towards oak decay and include the false darkling beetle *Abdera biflexuosa*, the narrow-waisted bark beetle *Lissodema denticolle* and the false flower beetle *Anaspis thoracica*. Broomscot has a good number of oak trees along its site boundaries (whereas only one tree was noted at Scarfe Common), hence the presence at Broomscot, and the absence at Scarfe, of scarce oak foliage feeders such as the weevils *Coleiodes ruber* and *C. transversealbofasciatus*.

Where Broomscot Common excels is in its breck habitat which occupies approximately 60-70% of the site's land area. The list of Nationally scarce and rare breck species is impressive and would suggest to the uninitiated, that this site was firmly entrenched in the heart of the East Anglian breckland. Amongst other notables, the assemblage includes the ground spider *Zelotes electus*, the ground beetles *Amara lucida*, *Harpalus anxius* and *H. smaragdinus*, the weevils *Brachypera dauci* and *Glocianus pilosellus*, the shining flower beetles *Olibrus millefolii* and *O. pygmaeus*, the rove beetle *Oxypoda lurida*, the lesser-streaked shieldbug *Odontoscelis lineola*, Fallen's leatherbug *Arenocoris falleni*, the groundbugs *Megalonotus praetextatus* and *M. sabulicola* and the bronze mirror clown *Saprinus aeneus* and coastal clown *Saprinus planiusculus*. The gorse scrub bordering the heath supports Gorse knot-horn moth *Pempelia genistella*.

LOHP Invertebrate Survey 2022

Recommendations: The dipping pond became contaminated by New Zealand pygmyweed *Crassula helmsii* in 2022. The plant is most likely to have been introduced by people, dogs or wildfowl. The outbreak was quickly controlled by the use of fencing and public information, and no evidence of the invader could be seen on the earliest September visit. However, the likelihood that it returns is high, so it may be necessary to protect the pond indefinitely. Certainly vigilance is all-important.

The site is popular with dog-walkers which has led to an increasing amount of fouling. Dog faeces is broken down to some extent by invertebrate dung assemblages, and indeed, its presence might actually enhance the biodiversity of this fauna at the site. However, the negative effects of fouling are that in the long-term, it can increase soil nutrient levels to the point where the ground flora of the breck heath is compromised. Quite how this sensitive issue is dealt with is beyond the scope of this report. Options might include monitoring the situation and possibly installing a notice at the entrance to the reserve or in the car parking areas explaining the potential impacts on the reserve and asking people to pick up and remove the dung.

There is a possibility that gorse encroachment could become a problem. However, the heath exists in its present state due in no small part to grazing and excavation by the resident rabbit population, for which the gorse scrub offers refuge from the ever present disturbance that the heath receives from dogs and people. If gorse is to be removed, a balance would need to be sought to maximise the extent of the short turf habitat whilst maintaining its habitat integrity.

Some careful, selective removal of willow in the carr area in the north-west section of the site might be beneficial to open up the inundation here and prevent the area from drying out. Desmoulin's whorl snail *Vertigo moulinsiana* was found here on previous surveys and although unlikely, it may persist.

The vegetation heaps that have been (?annually) deposited along the north edge of the fen have been shown in previous years to be important wintering sites for invertebrates, particularly those associated with the adjacent wetland habitat. In 2022, the heaps had dried out as a result of the drought. If future summers are likely to be subject to similar drought conditions, it would be desirable to re-establish these heaps where the ground remains more-or-less saturated throughout the year, yet without compromising nutrient levels in the adjacent fen.

The rabbit-grazed grassland that was once a football pitch, to the north of the main site lies outside of the study area, but casual investigation of this habitat on the walk from the site to the car park, showed it to be floristically diverse and to be supporting at least two Nationally scarce species; Dalman's Leatherbug and the weevil *Mogulones geographicus*. The habitat is rapidly becoming a good example of breck heath and with conservation management, could be regarded as a significant extension of Broomscot Common.

Recommendations for Future Invertebrate Sampling

Baseline invertebrate surveys could be carried out on other LOHP sites for which invertebrate data is entirely lacking or is deficient for informing management proposals. This could include a baseline survey of the Broomscot Common 'football pitch.'

Now that an exhaustive baseline survey has been carried out at the LOHP Scarfe Meadows and Broomscot Common sites, future sampling using standardised methodologies could be employed on site to sample future-created habitats or managed vs unmanaged areas within the same site.

The baseline survey has identified assemblages and specific Nationally Rare and IUCN-threatened taxa which may make suitable subjects for future targeted research.

8 References

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LOHP Invertebrate Survey 2022

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Appendix: Species List

The vernacular names have been taken from a number of different literature and internet sources, as well as from 'MapMate'.

Species name entries in italics relate to indeterminate species, species complexes, unresolved species identifications *etc.*

A 'YES' in the 'voucher retained?' column indicates that a voucher specimen has been retained (usually by Steve Lane, but occasionally this may have been donated to another person)

Nationally Rare (Red Data Book), Nationally Scarce (NS, Na/Nb Notable) and IUCN threat-designated species are highlighted in yellow.

For definitions of British Rarity codes, see section 6.1.1

IUCN Status column; for interpretation see e.g. Lane (2019).

Status column: National Statuses in brackets are those for which the true status of that species has changed since designation, and is no longer valid *e.g.* the species is not currently considered to be Nationally Rare or Nationally Scarce and is awaiting re-evaluation.

Associated Habitat Codes Key:

'a' = aquatic species

'g' = grassland/verge species

'h' = short turf lichen heath/breck habitat species

's' = woodland and hedgerow species, including saproxylics

'w' = wetland species, including wet woodland and wet grassland taxa

The 'Association' column lists the main plant associations where these are known and are few, and also dung, carrion *etc.* If the cell is left blank it may indicate that a phytophagous species is polyphagous or that a species is predatory.

Site Code Key:

'A' = Scarfe Meadows

'B' = Broomscot Common

'D1' = Scarfe Meadows 'Ditch 1'

'D2' = Scarfe Meadows 'Ditch 2'

'I' = Scarfe Meadows north field inundation (or willow carr inundation when prefixed by 'B')

'P1' = Broomscot Common, main dipping Pond

'P2' = Broomscot Common pond in ne corner of site

'ditch' = Broomscot Common ditch in north section of site

Months - number refers to number of month *e.g.* '4' = April, '11' = November

The Table includes data gathered prior to the 2022 survey, although each instance is not specifically indicated in the collated data.

A datasheet of raw data has been given to Rowena Langston (LOHP) along with this report

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|-------------------|--------------------------------|--|-----------------------|-------------------|---------------|-------------------|--------------|-------------|----------|--------|
| Amphipoda | Crangonyctidae | <i>Crangonyx pseudogracilis/floridanus</i> | | | | | a | | A (I) | 4 |
| Amphipoda | Gammaridae | Gammarus pulex | | none | | | a | | A (D1D2) | 4 |
| Araneae – SPIDERS | Agelenidae – Funnelweb Spiders | Agelena labyrinthica | Labyrinth Spider | none | Least Concern | | h | | A | 7 |
| Araneae | Araneidae – Orbweb Spiders | Araneus diadematus | Garden Orb-Web Spider | none | Least Concern | | | | AB | 9,10 |
| Araneae | Araneidae | Araneus marmoreus | | none | Least Concern | | | | AB | 7,10 |
| Araneae | Araneidae | Araneus triguttatus | | none | Least Concern | | s | | AB | 4 |
| Araneae | Araneidae | Araniella opisthographa | | none | Least Concern | | | | B | 6 |
| Araneae | Araneidae | Hypsosinga albovittata | | Nationally Scarce | Least Concern | | h | | B | 5 |
| Araneae | Araneidae | Larinioides cornutus | | none | Least Concern | | g | | B | 6 |
| Araneae | Araneidae | Mangora acalypha | | none | Least Concern | | | | AB | 6 |
| Araneae | Araneidae | Nuctenea umbratica | Walnut Orbweb Spider | none | Least Concern | | s | | AB | 467 |
| Araneae | Clubionidae – Sac Spiders | Clubiona corticalis | | none | Least Concern | | s | | A | 6 |
| Araneae | Clubionidae | Clubiona stagnatilis | | none | Least Concern | | w | | A | 4 |
| Araneae | Clubionidae | Clubiona subtilis | | none | Least Concern | | w | | B | 4 |
| Araneae | Dictynidae – Meshweb Spiders | Dictyna uncinata | | none | Least Concern | | s | | A | 6 |
| Araneae | Dysderidae – Woodlouse Spiders | Harpactea hombergi | | none | Least Concern | | s | | B | 7 |
| Araneae | Gnaphosidae – Ground Spiders | Drassyllus pusillus | | none | Least Concern | | g | | B | 56 |
| Araneae | Gnaphosidae | Haplodrassus signifer | | none | Least Concern | | g | | B | 456 |
| Araneae | Gnaphosidae | Micaria pulicaria sensu stricto | | none | Least Concern | | h | | B | 5 |
| Araneae | Gnaphosidae | Zelotes electus | | Nationally Scarce | Least Concern | | h | | B | 56 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|-----------------------------|-------------------------|------------|--------|---------------|-------------------|--------------|-------------|------|--------|
| Araneae | Linyphiidae – Money Spiders | Centromerita bicolor | | none | Least Concern | | g | | A | 11 |
| Araneae | Linyphiidae | Erigone atra | | none | Least Concern | | | | AB | 467 |
| Araneae | Linyphiidae | Erigone dentipalpis | | none | Least Concern | | | | AB | 46 |
| Araneae | Linyphiidae | Gnathonarium dentatum | | none | Least Concern | | w | | A | 46 |
| Araneae | Linyphiidae | Hylyphantes graminicola | | none | Least Concern | | | | A | 6 |
| Araneae | Linyphiidae | Hypomma bituberculatum | | none | Least Concern | | w | | A | 4 |
| Araneae | Linyphiidae | Leptorhoptrum robustum | | none | Least Concern | | w | | A | 46 |
| Araneae | Linyphiidae | Lophomma punctatum | | none | Least Concern | | w | | A | 4 |
| Araneae | Linyphiidae | Oedothorax agrestis | | none | Least Concern | | w | | A | 11 |
| Araneae | Linyphiidae | Oedothorax fuscus | | none | Least Concern | | g | | A | 69 |
| Araneae | Linyphiidae | Oedothorax gibbosus | | none | Least Concern | | w | | AB | 56 |
| Araneae | Linyphiidae | Oedothorax retusus | | none | Least Concern | | g | | AB | 456 |
| Araneae | Linyphiidae | Pelecopsis parallela | | none | Least Concern | | | | B | 5 |
| Araneae | Linyphiidae | Savignia frontata | | none | Least Concern | | | | A | 4 |
| Araneae | Linyphiidae | Tenuiphantes tenuis | | none | Least Concern | | | | B | 6 |
| Araneae | Linyphiidae | Walckenaeria nudipalpis | | none | Least Concern | | | | B | 11 |
| Araneae | Lycosidae – Wolf Spiders | Alopecosa barbipes | | none | Least Concern | | h | | B | 6 |
| Araneae | Lycosidae | Alopecosa pulverulenta | | none | Least Concern | | g | | AB | 45 |
| Araneae | Lycosidae | Arctosa leopardus | | none | Least Concern | | w | | AB | 456 |
| Araneae | Lycosidae | Pardosa amentata | | none | Least Concern | | | | AB | 456 |
| Araneae | Lycosidae | Pardosa monticola | | none | Least Concern | | h | | B | 56 |
| Araneae | Lycosidae | Pardosa palustris | | none | Least Concern | | g | | A | 46 |
| Araneae | Lycosidae | Pardosa prativaga | | none | Least Concern | | | | AB | 456 |
| Araneae | Lycosidae | Pardosa pullata | | none | Least Concern | | | | AB | 4567 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|--|-------------------------|-----------------------|-------------------|---------------|-------------------|--------------|-------------|------|---------|
| Araneae | Lycosidae | Pardosa tenuipes | | Nationally Scarce | Least Concern | | w | | A | 46 |
| Araneae | Lycosidae | Pirata piraticus | | none | Least Concern | | w | | AB | 56 |
| Araneae | Lycosidae | Piratula hygrophila | | none | Least Concern | | w | | AB | 567 |
| Araneae | Lycosidae | Piratula latitans | | none | Least Concern | | w | | AB | 567 |
| Araneae | Lycosidae | Trochosa ruricola | | none | Least Concern | | w | | A | 46 |
| Araneae | Philodromidae – Running Crab Spiders | Philodromus aureolus | | none | Least Concern | | s | | A | 6 |
| Araneae | Philodromidae | Philodromus cespitum | | none | Least Concern | | | | A | 6 |
| Araneae | Philodromidae | Philodromus dispar | | none | Least Concern | | s | | B | 6 |
| Araneae | Philodromidae | Tibellus oblongus | | none | Least Concern | | g | | B | 6 |
| Araneae | Phrurolithidae – Running Foliage Spiders | Agroeca brunnea | | none | Least Concern | | s | | B | 11 |
| Araneae | Pisauridae – Nurseryweb Spiders | Pisaura mirabilis | Nurseryweb Spider | none | Least Concern | | | | AB | 4910,11 |
| Araneae | Salticidae – Jumping Spiders | Heliophanus flavipes | | none | Least Concern | | | | B | 6 |
| Araneae | Salticidae | Marpissa muscosa | | Nationally Scarce | Least Concern | | s (gate) | | A | 469,10 |
| Araneae | Salticidae | Salticus scenicus | Common Zebra Spider | none | Least Concern | | | | A | 4 |
| Araneae | Tetragnathidae – Long-jawed Orbweb Spiders | Pachygnatha clercki | | none | Least Concern | | w | | AB | 4569 |
| Araneae | Tetragnathidae | Pachygnatha degeeri | | none | Least Concern | | | | AB | 4567 |
| Araneae | Tetragnathidae | Tetragnatha extensa | Common Stretch Spider | none | Least Concern | | w | | A | 7 |
| Araneae | Tetragnathidae | Tetragnatha montana | | none | Least Concern | | w | | A | 6 |
| Araneae | Tetragnathidae | Tetragnatha nigrita | | none | Least Concern | | | | A | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|----------------------------|-----------------------------------|------------------------|-----------------------------|-------------------------------|-------------------|-------------------|--------------|---------------------------|-------|---------|
| Araneae | Theridiidae – Comb-footed Spiders | Asagena phalerata | | none | Least Concern | | h | | B | 56 |
| Araneae | Theridiidae | Enoplognatha latimana | Scarce Candy-striped Spider | none | Least Concern | | | | AB | 7 |
| Araneae | Theridiidae | Robertus lividus | | none | Least Concern | | | | AB | 11 |
| Araneae | Thomisidae – Crab Spiders | Ozyptila brevipes | | none | Least Concern | | w | | B | 11 |
| Araneae | Thomisidae | Xysticus cristatus | | none | Least Concern | | | | AB | 45 |
| Araneae | Thomisidae | Xysticus kochi | | none | Least Concern | | h | | AB | 456 |
| Araneae | Thomisidae | Xysticus ulmi | | none | Least Concern | | w | | A | 6 |
| Arhynchobdellida – LEECHES | Erpobdellidae | <i>Erpobdella sp</i> | | | | | a | | B(P2) | 4 |
| Arhynchobdellida | Erpobdellidae | Erpobdella octoculata | | none | | | a | | A(D1) | 4 |
| Arhynchobdellida | Haemopidae | Haemopsis sanguisuga | Horse Leech | none | | | a | | A(D2) | 9 |
| Coleoptera – BEETLES | Anthicidae – Ant Beetles | Anthicus antherinus | | none | Least Concern | | g | | AB | 7,10,11 |
| Coleoptera | Anthicidae | Notoxus monoceros | Monoceros Beetle | none | Least Concern | | h | | A | 6 |
| Coleoptera | Anthicidae | Omonadus formicarius | | none | Least Concern | | | decaying vegetation heaps | B | 7 |
| Coleoptera | Anthribidae – Fungus Weevils | Platystomos albinus | | Nationally Scarce (Notable B) | not yet evaluated | | s | Fungus-infected trees | A | 6 |
| Coleoptera | Apionidae – Seed Weevils | Apion cruentatum | | none | not yet evaluated | YES | g | common sorrel | B | 6 |
| Coleoptera | Apionidae | Apion frumentarium | | none | not yet evaluated | | | docks | AB | 69 |
| Coleoptera | Apionidae | Apion haematodes | | none | not yet evaluated | | h | sheep’s sorrel | B | 67 |
| Coleoptera | Apionidae | Ceratapion carduorum | | none | not yet evaluated | | g | spear thistle | A | 7 |
| Coleoptera | Apionidae | Ceratapion gibbirostre | | none | not yet evaluated | | g | thistles | A | 4 |
| Coleoptera | Apionidae | Ceratapion onopordi | | none | not yet evaluated | | g | thistles | AB | 9 |
| Coleoptera | Apionidae | Eutrichapion ervi | | none | not yet evaluated | | g | vetches | B | 69,11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|-------------------------------|--------------------------|--------------------------|-----------------------------------|-------------------|-------------------|--------------|-----------------------------|------|----------------|
| Coleoptera | Apionidae | Eutrichapion viciae | | none | not yet evaluated | | g | vetches | B | 7 |
| Coleoptera | Apionidae | Eutrichapion vorax | | none | not yet evaluated | | s | vetches | A | 4 |
| Coleoptera | Apionidae | Exapion ulicis | Gorse Weevil | none | not yet evaluated | | h | gorse | B | 47,10 |
| Coleoptera | Apionidae | Holotrichapion pisi | | none | not yet evaluated | | g | <i>Medicago</i> | B | 9 |
| Coleoptera | Apionidae | Ischnopterapion modestum | | none | not yet evaluated | | w | greater bird's-trefoil | B | 9 |
| Coleoptera | Apionidae | Melanapion minimum | | Nationally Rare (Red Data Book 3) | not yet evaluated | | w | willows | A | 6 |
| Coleoptera | Apionidae | Perapion curtirostre | | none | not yet evaluated | | h | sheep's sorrel | B | 6 |
| Coleoptera | Apionidae | Perapion hydrolapathi | | none | not yet evaluated | | g | docks | A | 47 |
| Coleoptera | Apionidae | Pirapion immune | | none | not yet evaluated | | h | broom | B | 6 |
| Coleoptera | Apionidae | Protapion apricans | | none | not yet evaluated | | g | red clover | AB | 6 |
| Coleoptera | Apionidae | Protapion assimile | | none | not yet evaluated | | g | clovers | B | 6 |
| Coleoptera | Apionidae | Protapion fulvipes | White Clover Seed Weevil | none | not yet evaluated | | g | white clover, alsike clover | B | 5 |
| Coleoptera | Apionidae | Protapion nigritarse | | none | not yet evaluated | | g | clovers | B | 10 |
| Coleoptera | Apionidae | Protapion trifolii | | none | not yet evaluated | | g | clovers | A | 6 |
| Coleoptera | Buprestidae – Jewel Beetles | Agilus sinuatus | Hawthorn Jewel Beetle | none | Least Concern | | s | hawthorn | AB | 4 (exit holes) |
| Coleoptera | Cantharidae – Soldier Beetles | Cantharis cryptica | | none | Least Concern | | | | AB | 6 |
| Coleoptera | Cantharidae | Cantharis decipiens | | none | Least Concern | | s | | B | 4 |
| Coleoptera | Cantharidae | Cantharis flavilabris | | none | Least Concern | | g | | AB | 67 |
| Coleoptera | Cantharidae | Cantharis fusca | | Nationally Scarce | Least Concern | YES | w | | A | 6 |
| Coleoptera | Cantharidae | Cantharis lateralis | | none | Least Concern | | g | | AB | 67 |
| Coleoptera | Cantharidae | Cantharis livida | | none | Least Concern | | | | A | 6 |
| Coleoptera | Cantharidae | Cantharis nigra (was | | none | Least Concern | | w | | A | 67 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|----------------------------|--------------------------|---------------------------|-------------------|---------------|-------------------|--------------|-------------|------|-----------|
| | | thoracica) | | | | | | | | |
| Coleoptera | Cantharidae | Cantharis nigricans | | none | Least Concern | | | | A | 6 |
| Coleoptera | Cantharidae | Cantharis pallida | | none | Least Concern | | w | | AB | 67 |
| Coleoptera | Cantharidae | Cantharis pellucida | | none | Least Concern | | s | | A | 6 |
| Coleoptera | Cantharidae | Cantharis rufa | | none | Least Concern | | g | | B | 6 |
| Coleoptera | Cantharidae | Cantharis rustica | | none | Least Concern | | g | | A | 6 |
| Coleoptera | Cantharidae | Malthinus flaveolus | | none | Least Concern | | s | | A | 7 |
| Coleoptera | Cantharidae | Malthinus seriepunctatus | | none | Least Concern | | s | | B | 6 |
| Coleoptera | Cantharidae | Malthodes marginatus | | none | Least Concern | | s | | A | 6 |
| Coleoptera | Cantharidae | Rhagonycha fulva | Common Red Soldier Beetle | none | Least Concern | | g | | AB | 67 |
| Coleoptera | Cantharidae | Rhagonycha lutea | | Nationally Scarce | Least Concern | | s | | A | 6 |
| Coleoptera | Cantharidae | Rhagonycha nigriventris | | none | Least Concern | | | | A | 6 |
| Coleoptera | Cantharidae | Rhagonycha testacea | | none | Least Concern | | w | | B | 6 |
| Coleoptera | Carabidae – Ground Beetles | Acupalpus dubius | | none | Least Concern | | w | | AB | 467,10,11 |
| Coleoptera | Carabidae | Acupalpus parvulus | | none | Least Concern | | w | | B | 7 |
| Coleoptera | Carabidae | Agonum emarginatum | | none | Least Concern | YES | w | | AB | 4567,11 |
| Coleoptera | Carabidae | Agonum fuliginosum | | none | Least Concern | | w | | AB | 4679,11 |
| Coleoptera | Carabidae | Agonum marginatum | | none | Least Concern | | w | | A | 4 |
| Coleoptera | Carabidae | Agonum thoreyi | | none | Least Concern | | w | | AB | 6,10 |
| Coleoptera | Carabidae | Agonum viduum | | none | Least Concern | YES | w | | AB | 4567,11 |
| Coleoptera | Carabidae | Amara aenea | Common Sun Beetle | none | Least Concern | YES | h | | B | 4567 |
| Coleoptera | Carabidae | Amara apricaria | | none | Least Concern | | h | | AB | 67 |
| Coleoptera | Carabidae | Amara bifrons | | none | Least Concern | | h | | B | 7 |
| Coleoptera | Carabidae | Amara communis | | none | Least Concern | | g | | A | 46,11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|-----------|------------------------------|------------|-------------------|---------------|-------------------|--------------|-------------|------|---------|
| Coleoptera | Carabidae | Amara convexior | | none | Least Concern | | h | | B | 7 |
| Coleoptera | Carabidae | Amara familiaris | | none | Least Concern | | g | | B | 4 |
| Coleoptera | Carabidae | Amara lucida | | Nationally Scarce | Least Concern | | h | | B | 567 |
| Coleoptera | Carabidae | Amara lunicollis | | none | Least Concern | | g | | AB | 56,11 |
| Coleoptera | Carabidae | Amara montivaga | | Nationally Scarce | Least Concern | | h | | B | 6 |
| Coleoptera | Carabidae | Amara ovata | | none | Least Concern | | g | | B | 57 |
| Coleoptera | Carabidae | Amara plebeja | | none | Least Concern | | | | AB | 46 |
| Coleoptera | Carabidae | Amara similata | | none | Least Concern | | g | | AB | 456,11 |
| Coleoptera | Carabidae | Amara tibialis | | none | Least Concern | | h | | B | 4567 |
| Coleoptera | Carabidae | Anisodactylus binotatus | | none | Least Concern | | g | | A | 6 |
| Coleoptera | Carabidae | Badister bullatus sens. lat. | | none | Least Concern | | | | A | 11 |
| Coleoptera | Carabidae | Bembidion assimile | | none | Least Concern | | w | | AB | 467 |
| Coleoptera | Carabidae | Bembidion biguttatum | | none | Least Concern | | w | | AB | 46,11 |
| Coleoptera | Carabidae | Bembidion clarkii | | none | Least Concern | | w | | AB | 46,11 |
| Coleoptera | Carabidae | Bembidion genei | | none | Least Concern | | w | | AB | 4 |
| Coleoptera | Carabidae | Bembidion guttula | | none | Least Concern | | | | A | 46 |
| Coleoptera | Carabidae | Bembidion lampros | | none | Least Concern | | | | A | 6,11 |
| Coleoptera | Carabidae | Bembidion lunulatum | | none | Least Concern | YES | w | | AB | 4567,10 |
| Coleoptera | Carabidae | Bembidion mannerheimii | | none | Least Concern | | | | AB | 11 |
| Coleoptera | Carabidae | Bembidion obtusum | | none | Least Concern | YES | g | | A | 6 |
| Coleoptera | Carabidae | Bembidion properans | | none | Least Concern | | g | | A | 469 |
| Coleoptera | Carabidae | Bradycellus harpalinus | | none | Least Concern | | g | | AB | 4,11 |
| Coleoptera | Carabidae | Bradycellus verbasci | | none | Least Concern | | g | | AB | 7,11 |
| Coleoptera | Carabidae | Calathus cinctus | | none | Least Concern | | h | | B | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|-----------|--------------------------|------------------------|-------------------|---------------|-------------------|--------------|------------------------|------|----------|
| Coleoptera | Carabidae | Calathus fuscipes | | none | Least Concern | | g | | AB | 5679,11 |
| Coleoptera | Carabidae | Calathus melanocephalus | | none | Least Concern | | g | | A | 9 |
| Coleoptera | Carabidae | Calodromius spilotus | | none | Least Concern | | s | | AB | 467,10 |
| Coleoptera | Carabidae | Carabus granulatus | | none | Least Concern | | w | | A | 46 |
| Coleoptera | Carabidae | Carabus problematicus | | none | Least Concern | | | | B | 7 |
| Coleoptera | Carabidae | Chlaenius nigricornis | | none | Least Concern | | w | | AB | 467 |
| Coleoptera | Carabidae | Clivina fossor | | none | Least Concern | | | | A | 46 |
| Coleoptera | Carabidae | Curtonotus aulicus | | none | Least Concern | | g | thistles | B | 11 |
| Coleoptera | Carabidae | Demetrias atricapillus | | none | Least Concern | | g | | AB | 47,10,11 |
| Coleoptera | Carabidae | Demetrias imperialis | | none | Least Concern | | w | <i>Phragmites beds</i> | A | 47 |
| Coleoptera | Carabidae | Dicheirotrichus placidus | | none | Least Concern | | w | | A | 4,11 |
| Coleoptera | Carabidae | Dromius quadrimaculatus | | none | Least Concern | | s | | B | 467 |
| Coleoptera | Carabidae | Dyschirius aeneus | | none | Least Concern | | w | | A | 6 |
| Coleoptera | Carabidae | Elaphrus cupreus | | none | Least Concern | | w | | AB | 45 |
| Coleoptera | Carabidae | Elaphrus riparius | | none | Least Concern | | w | | AB | 4 |
| Coleoptera | Carabidae | Harpalus affinis | | none | Least Concern | | g/h | | B | 567 |
| Coleoptera | Carabidae | Harpalus anxius | | Nationally Scarce | Least Concern | | h | | B | 567 |
| Coleoptera | Carabidae | Harpalus rubripes | | none | Least Concern | | h | | B | 567 |
| Coleoptera | Carabidae | Harpalus rufipes | Strawberry Seed Beetle | none | Least Concern | | g | | AB | 67 |
| Coleoptera | Carabidae | Harpalus smaragdinus | | Nationally Scarce | Least Concern | | h | | B | 6 |
| Coleoptera | Carabidae | Harpalus tardus | | none | Least Concern | | h | | B | 567,10 |
| Coleoptera | Carabidae | Leistus ferrugineus | | none | Least Concern | | | | B | 10 |
| Coleoptera | Carabidae | Loricera pilicornis | | none | Least Concern | | | | AB | 467 |
| Coleoptera | Carabidae | Nebria brevicollis | | none | Least Concern | | | | AB | 46,10 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|-----------|----------------------------|-------------|-------------------|---------------|-------------------|--------------|-------------|------|---------|
| Coleoptera | Carabidae | Nebria salina | | none | Least Concern | | h | | B | 5 |
| Coleoptera | Carabidae | Notiophilus biguttatus | | none | Least Concern | | | | AB | 47,11 |
| Coleoptera | Carabidae | Notiophilus palustris | | none | Least Concern | | | | B | 11 |
| Coleoptera | Carabidae | Notiophilus substriatus | | none | Least Concern | | h | | AB | 46 |
| Coleoptera | Carabidae | Oodes helopioides | | Nationally Scarce | Least Concern | | w | | A | 46 |
| Coleoptera | Carabidae | Ophonus ardosiacus | | none | Least Concern | | h | | A | 7 |
| Coleoptera | Carabidae | Ophonus puncticeps | | none | Least Concern | | h | | B | 7 |
| Coleoptera | Carabidae | Ophonus rufibarbis | | none | Least Concern | | g | | B | 7 |
| Coleoptera | Carabidae | Oxypselaphus obscurus | | none | Least Concern | | | | AB | 11 |
| Coleoptera | Carabidae | Paradromius linearis | | none | Least Concern | | g | | AB | 49,10 |
| Coleoptera | Carabidae | Paranchus albipes | | none | Least Concern | | w | | A | 4 |
| Coleoptera | Carabidae | Philorhizus melanocephalus | | none | Least Concern | | g | | B | 6,11 |
| Coleoptera | Carabidae | Poecilus cupreus | | none | Least Concern | | g | | A | 469 |
| Coleoptera | Carabidae | Poecilus versicolor | | none | Least Concern | | g | | A | 469 |
| Coleoptera | Carabidae | Pterostichus diligens | | none | Least Concern | | w | | AB | 11 |
| Coleoptera | Carabidae | Pterostichus gracilis | | Nationally Scarce | Least Concern | | w | | A | 46 |
| Coleoptera | Carabidae | Pterostichus madidus | Black Clock | none | Least Concern | | | | AB | 67 |
| Coleoptera | Carabidae | Pterostichus melanarius | | none | Least Concern | | g | | A | 69 |
| Coleoptera | Carabidae | Pterostichus minor | | none | Least Concern | | w | | AB | 4579,11 |
| Coleoptera | Carabidae | Pterostichus niger | | none | Least Concern | | | | AB | 679 |
| Coleoptera | Carabidae | Pterostichus nigrita | | none | Least Concern | | w | | AB | 4679,10 |
| Coleoptera | Carabidae | Pterostichus rhaeticus | | none | Least Concern | | w | | B | 57 |
| Coleoptera | Carabidae | Pterostichus strenuus | | none | Least Concern | | | | AB | 47,11 |
| Coleoptera | Carabidae | Pterostichus vernalis | | none | Least Concern | | | | AB | 467,11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------------------------|------------------------------|-------------------------------------|---------------------|---------------|-------------------|--------------|-------------------------------|------|---------|
| Coleoptera | Carabidae | Stenolophus mixtus | | none | Least Concern | | w | | B | 7 |
| Coleoptera | Carabidae | Stenolophus skrimshiranus | | Nationally Scarce | Least Concern | YES | w | | AB | 46 |
| Coleoptera | Carabidae | Stenolophus teutonius | | [Nationally Scarce] | Least Concern | | w | | AB | 6,11 |
| Coleoptera | Carabidae | Syntomus foveatus | | none | Least Concern | YES | h | | B | 4567,10 |
| Coleoptera | Carabidae | Syntomus truncatellus | | Nationally Scarce | Least Concern | YES | g | | A | 6,11 |
| Coleoptera | Carabidae | Trechus quadristriatus | | none | Least Concern | | | | B | 7,10 |
| Coleoptera | Cerambycidae – Longhorn Beetles | Agapanthia villosviridescens | Golden-bloomed Grey Longhorn | none | Least Concern | | g | umbellifers | A | 6 |
| Coleoptera | Cerambycidae | Grammoptera ruficornis | Common Grammoptera | none | Least Concern | | s | dead wood | A | 46 |
| Coleoptera | Cerambycidae | Leiopus linnei | | none | Least Concern | | s | dead wood | A | 6 |
| Coleoptera | Cerambycidae | Pogonocherus hispidus | Lesser Thorn-tipped Longhorn Beetle | none | Least Concern | | s | dead wood | A | 4 |
| Coleoptera | Cerambycidae | Pseudovadonia livida | Fairy-ring Longhorn Beetle | none | Least Concern | | g | <i>Marasmius oreades</i> | B | 6 |
| Coleoptera | Cerambycidae | Rutpela maculata | Black and Yellow Longhorn | none | Least Concern | | s | dead wood | A | 67 |
| Coleoptera | Cerambycidae | Stenocorus meridianus | Variable Longhorn | none | Least Concern | | s | tree roots | B | 6 |
| Coleoptera | Chrysomelidae – Leaf Beetles | Altica lythri | | none | Least Concern | | w | willowherbs (usually greater) | AB | 4567,11 |
| Coleoptera | Chrysomelidae | Altica palustris | | none | Least Concern | | | willowherbs | B | 11 |
| Coleoptera | Chrysomelidae | Aphthona euphorbiae | Large Flax Flea Beetle | none | Least Concern | | | | AB | 4567 |
| Coleoptera | Chrysomelidae | Aphthona nonstriata | Iris Flea Beetle | none | Least Concern | | w | yellow flag | A | 46 |
| Coleoptera | Chrysomelidae | Bruchidius varius | | none | Least Concern | | g | red clover | AB | 4679 |
| Coleoptera | Chrysomelidae | Bruchus rufimanus | Bean Seed Beetle | none | Least Concern | | | Fabaceae | AB | 479 |
| Coleoptera | Chrysomelidae | Cassida prasina | | Nationally Scarce | Least Concern | | g | yarrow | B | 47 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|-------------------------|-------------------------|--------|---------------|-------------------|--------------|----------------------------------|---------|--------|
| Coleoptera | Chrysomelidae | Cassida rubiginosa | Thistle Tortoise Beetle | none | Least Concern | | g | thistles | AB | 4679 |
| Coleoptera | Chrysomelidae | Cassida vibex | | none | Least Concern | | g | knapweeds, thistles | B | 10 |
| Coleoptera | Chrysomelidae | Chaetocnema concinna | Mangold Flea Beetle | none | Least Concern | | | Polygonaceae | AB | 4 |
| Coleoptera | Chrysomelidae | Chaetocnema hortensis | | none | Least Concern | | | Poaceae | AB | 456,11 |
| Coleoptera | Chrysomelidae | Chaetocnema picipes | | none | Least Concern | | | Polygonaceae | B | 5 |
| Coleoptera | Chrysomelidae | Chrysolina hyperici | | none | Least Concern | | g/h | St John's-wort | B | 5 |
| Coleoptera | Chrysomelidae | Chrysolina polita | | none | Least Concern | | | ground ivy/mints | A | 6 |
| Coleoptera | Chrysomelidae | Crepidodera aurata | Willow Flea Beetle | none | Least Concern | | | willows | A | 69 |
| Coleoptera | Chrysomelidae | Crepidodera fulvicornis | | none | Least Concern | | | willows | B | 4 |
| Coleoptera | Chrysomelidae | Crepidodera plutus | | none | Least Concern | | | willows | A | 479 |
| Coleoptera | Chrysomelidae | Cryptocephalus fulvus | | none | Least Concern | YES | h | sheep's sorrel, St John's-wort | B | 67 |
| Coleoptera | Chrysomelidae | Cryptocephalus pusillus | | none | Least Concern | | s | | B | 7 |
| Coleoptera | Chrysomelidae | Donacia marginata | | none | Least Concern | | w/a | <i>Sparganium</i> | B | 6 |
| Coleoptera | Chrysomelidae | Donacia simplex | | none | Least Concern | | w/a | Bur-reeds | A(D1D2) | 467 |
| Coleoptera | Chrysomelidae | Epitrix pubescens | | none | Least Concern | | | woody nightshade | AB | 679 |
| Coleoptera | Chrysomelidae | Galeruca tanaceti | | none | Least Concern | | g/h | | B | 6 |
| Coleoptera | Chrysomelidae | Gastrophysa polygoni | | none | Least Concern | | g | knotgrass and other Polygonaceae | B | 4 |
| Coleoptera | Chrysomelidae | Lochmaea caprea | Willow Leaf Beetle | none | Least Concern | | s | willows, birches | B | 4 |
| Coleoptera | Chrysomelidae | Lochmaea crataegi | Hawthorn Leaf Beetle | none | Least Concern | | s | hawthorn | AB | 4 |
| Coleoptera | Chrysomelidae | Longitarsus flavicornis | | none | Least Concern | | g | ragwort | B | 479 |
| Coleoptera | Chrysomelidae | Longitarsus luridus | | none | Least Concern | | g | various, but often Ranunculus | AB | 45 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|-------------------------------------|--------------------------------|---------------------------|--------|-------------------|-------------------|--------------|----------------------------|------|--------|
| Coleoptera | Chrysomelidae | Longitarsus parvulus | Flax Flea Beetle | none | Least Concern | | | various | AB | 469,10 |
| Coleoptera | Chrysomelidae | Longitarsus rubiginosus | | none | Least Concern | | | <i>Calystegia mainly</i> | A | 89 |
| Coleoptera | Chrysomelidae | Neocrepidodera transversa | | none | Least Concern | | | | AB | 67 |
| Coleoptera | Chrysomelidae | Oulema melanopus sens. str. | | none | Least Concern | | g | Poaceae | AB | 49,11 |
| Coleoptera | Chrysomelidae | Phaedon armoraciae | | none | Least Concern | | w | wetland crucifers | B | 6 |
| Coleoptera | Chrysomelidae | Phaedon cochleariae | | none | Least Concern | | w | wetland crucifers (mainly) | B | 49 |
| Coleoptera | Chrysomelidae | Phaedon tumidulus | Celery Leaf Beetle | none | Least Concern | | g | cow parsley, hogweed | B | 10,11 |
| Coleoptera | Chrysomelidae | Phratora vitellinae | Brassy Willow Beetle | none | Least Concern | | | willows, aspens, poplars | A | 9 |
| Coleoptera | Chrysomelidae | Phyllotreta nigripes | | none | Least Concern | | g | Brassicaceae | AB | 49 |
| Coleoptera | Chrysomelidae | Phyllotreta undulata | Small Striped Flea Beetle | none | Least Concern | | | Brassicaceae | AB | 4,10 |
| Coleoptera | Chrysomelidae | Phyllotreta vittula | Barley Flea Beetle | none | Least Concern | | | Brassicaceae and Poaceae | AB | 47 |
| Coleoptera | Chrysomelidae | Plagiodera versicolora | | none | Least Concern | | w | willows | AB | 46 |
| Coleoptera | Chrysomelidae | Psylliodes affinis | Potato Flea Beetle | none | Least Concern | | | woody nightshade | AB | 467 |
| Coleoptera | Chrysomelidae | Psylliodes chrysocephala | Cabbage-stem Flea Beetle | none | Least Concern | | | Brassicaceae | AB | 469,10 |
| Coleoptera | Chrysomelidae | Psylliodes dulcamarae | | none | Least Concern | | | woody nightshade | A | 4 |
| Coleoptera | Chrysomelidae | Sphaeroderma testaceum | | none | Least Concern | | | thistles | AB | 79 |
| Coleoptera | Ciidae – Minute Tree-fungus Beetles | Cis boleti | | none | not yet evaluated | | s | fungoid dead wood | B | 10 |
| Coleoptera | Cleridae – Checkered Beetles | Necrobia violacea | | none | not yet evaluated | | | carrion | B | 6 |
| Coleoptera | Coccinellidae – Ladybirds | Adalia decempunctata | 10-spot Ladybird | none | not yet evaluated | | s | | AB | 467 |
| Coleoptera | Coccinellidae | Anisosticta novemdecimpunctata | Water Ladybird | none | not yet evaluated | | w | | A | 47 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--------------------------------------|--------------------------------------|--------------------------|-------------------------------------|-------------------|-------------------|--------------|-------------|------|------------|
| Coleoptera | Coccinellidae | Calvia quattuordecimguttata | Cream-spot Ladybird | none | not yet evaluated | | s | | AB | 467 |
| Coleoptera | Coccinellidae | Coccidula rufa | Red Marsh Ladybird | none | not yet evaluated | | w | | AB | 469,10,11 |
| Coleoptera | Coccinellidae | Coccinella septempunctata | 7-spot Ladybird | none | not yet evaluated | | | | AB | 4679,10 |
| Coleoptera | Coccinellidae | Exochomus quadripustulatus | Pine Ladybird | none | not yet evaluated | | s | | AB | 469,10 |
| Coleoptera | Coccinellidae | Halyzia sedecimguttata | Orange Ladybird | none | not yet evaluated | | s | | A | 67 |
| Coleoptera | Coccinellidae | Harmonia axyridis | Harlequin Ladybird | none | not yet evaluated | | | | AB | 4679,10 |
| Coleoptera | Coccinellidae | Hippodamia variegata | Adonis Ladybird | [Nationally Scarce (Notable B)] | not yet evaluated | | h | | B | 7 |
| Coleoptera | Coccinellidae | Nephus quadrimaculatus | Four-spotted Nephus | [Nationally Rare (Red Data Book 2)] | not yet evaluated | | s | ivy | B | 10 |
| Coleoptera | Coccinellidae | Propylea quattuordecimpunctata | 14-spot Ladybird | none | not yet evaluated | | | | AB | 4679 |
| Coleoptera | Coccinellidae | Psyllobora vigintiduopunctata | 22-spot Ladybird | none | not yet evaluated | | g | | A | 469 |
| Coleoptera | Coccinellidae | Rhyzobius litura | Pointed-keeled Rhyzobius | none | not yet evaluated | | g | | AB | 49,10 |
| Coleoptera | Coccinellidae | Scymnus frontalis | Angle-spotted Scymnus | none | not yet evaluated | | h | | B | 6 |
| Coleoptera | Coccinellidae | Scymnus haemorrhoidalis | Red-rumped Scymnus | none | not yet evaluated | | w | | A | 11 |
| Coleoptera | Coccinellidae | Subcoccinella vigintiquatuorpunctata | 24-spot Ladybird | none | not yet evaluated | | g | | AB | 4679,10,11 |
| Coleoptera | Coccinellidae | Tytthaspis sedecimpunctata | 16-spot Ladybird | none | not yet evaluated | | g | | A | 4679,11 |
| Coleoptera | Corylophidae – Minute Hooded Beetles | Corylophus cassidoides | | none | not yet evaluated | | w | | A | 4,11 |
| Coleoptera | Corylophidae | Orthoperus nigrescens | | [Nationally Scarce | not yet evaluated | | s | dead wood | B | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|-----------------------------|---------------------------|--|-------------------|-------------------|--------------|---------------------------|------|--------|
| | | | | (Notable B)] | | | | | | |
| Coleoptera | Cryptophagidae – Silken Fungus Beetles | Atomaria atricapilla | | none | not yet evaluated | | | | B | 4 |
| Coleoptera | Cryptophagidae | Atomaria basalis | | none | not yet evaluated | | w | | B | 49,10 |
| Coleoptera | Cryptophagidae | Atomaria lewisi | | none | not yet evaluated | | | decaying vegetation heaps | B | 10 |
| Coleoptera | Cryptophagidae | Atomaria mesomela | | none | not yet evaluated | | w | | A | 4 |
| Coleoptera | Cryptophagidae | Atomaria scutellaris | | [Nationally Rare (Red Data Book insufficiently known)] | not yet evaluated | | g/h | | A | 4 |
| Coleoptera | Cryptophagidae | Cryptophagus denticulatus | | none | not yet evaluated | YES | | decaying vegetation heaps | B | 11 |
| Coleoptera | Cryptophagidae | Cryptophagus lycoperdi | | none | not yet evaluated | | g | puffball fungi | B | 6 |
| Coleoptera | Cryptophagidae | Ephistemus globulus | | none | not yet evaluated | | | | B | 10 |
| Coleoptera | Cryptophagidae | Micrambe ulicis | | none | not yet evaluated | | h | gorse | AB | 47,10 |
| Coleoptera | Curculionidae – Weevils | Acalyptus carpini | | Nationally Scarce (Notable B) | not yet evaluated | | w | willows | AB | 47 |
| Coleoptera | Curculionidae | Andrion regensteinense | | none | not yet evaluated | | s | gorse and broom | B | 46 |
| Coleoptera | Curculionidae | Anthonomus pedicularius | | none | not yet evaluated | | s | hawthorn | AB | 4 |
| Coleoptera | Curculionidae | Anthonomus rubi | Strawberry Blossom Weevil | none | not yet evaluated | | g | cinquefoils etc | AB | 6 |
| Coleoptera | Curculionidae | Archarius pyrrhoceras | | none | not yet evaluated | | s | oaks | B | 4 |
| Coleoptera | Curculionidae | Brachypera dauci | | Nationally Scarce (Notable B) | not yet evaluated | YES | h | common stork's-bill | B | 5 |
| Coleoptera | Curculionidae | Ceutorhynchus inaeffectatus | | none | not yet evaluated | YES | g | dame's violet | A | 6 |
| Coleoptera | Curculionidae | Ceutorhynchus obstrictus | | none | not yet evaluated | | | Brassicaceae | AB | 46 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|-----------------------------------|---------------------|-----------------------------------|-------------------|-------------------|--------------|--------------------|------|--------|
| Coleoptera | Curculionidae | Ceutorhynchus pallidactylus | Cabbage Stem Weevil | none | not yet evaluated | | | Brassicaceae | AB | 47 |
| Coleoptera | Curculionidae | Ceutorhynchus picitarsis | | none | not yet evaluated | | g | Brassicaceae | A | 6 |
| Coleoptera | Curculionidae | Ceutorhynchus pyrrhorhynchus | | none | not yet evaluated | | g | hedge mustard | A | 6 |
| Coleoptera | Curculionidae | Ceutorhynchus typhae | | none | not yet evaluated | | | Brassicaceae | AB | 46 |
| Coleoptera | Curculionidae | Coeliodes ruber | | Nationally Scarce (Notable B) | not yet evaluated | YES | s | oak | B | 4 |
| Coleoptera | Curculionidae | Coeliodes transversealbofasciatus | | Nationally Scarce (Notable B) | not yet evaluated | YES | s | oak | B | 4 |
| Coleoptera | Curculionidae | Coelositona cambricus | | none | not yet evaluated | | | Lotus sp | B | 5 |
| Coleoptera | Curculionidae | Curculio glandium | Acorn Weevil | none | not yet evaluated | | s | oak | AB | 479 |
| Coleoptera | Curculionidae | Curculio venosus | | none | not yet evaluated | | s | oak | B | 7 |
| Coleoptera | Curculionidae | Datonychus melanostictus | | none | not yet evaluated | | w | water mint | B | 10 |
| Coleoptera | Curculionidae | Dorytomus taeniatus | | none | not yet evaluated | | s | willows | A | 6 |
| Coleoptera | Curculionidae | Euophryum confine | | none | not yet evaluated | | s | dead wood | A | 6 |
| Coleoptera | Curculionidae | Glocianus pilosellus | | Nationally Rare (Red Data Book 2) | not yet evaluated | YES | h | 'lesser dandelion' | B | 5 |
| Coleoptera | Curculionidae | Gymnetron rostellum | | Nationally Scarce (Notable A) | not yet evaluated | YES | g/h | speedwells? | A | 4 |
| Coleoptera | Curculionidae | Hylesinus taranio | | none | not yet evaluated | | s | ash | A | 6 |
| Coleoptera | Curculionidae | Hypera conmaculata | | none | not yet evaluated | | w | fool's watercress | B | 4,10 |
| Coleoptera | Curculionidae | Hypera rumicis | | none | not yet evaluated | | | docks | A | 6 |
| Coleoptera | Curculionidae | Leiosoma deflexum | | none | not yet evaluated | | | Ranunculaceae | A | 4 |
| Coleoptera | Curculionidae | Limnobaris dolorosa | | none | not yet evaluated | | w | sedges | B | 6,11 |
| Coleoptera | Curculionidae | Magdalis cerasi | | [Nationally | not yet evaluated | | s | hawthorn and | B | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|------------------------------|---------------------------|------------------------------------|-------------------|-------------------|--------------|-----------------|------|--------|
| | | | | Scarce (Notable B)] | | | | other Rosaceae | | |
| Coleoptera | Curculionidae | Magdalis ruficornis | | none | not yet evaluated | YES | s | Rosaceae shrubs | A | 4 |
| Coleoptera | Curculionidae | Nedyus quadrimaculatus | Small Nettle Weevil | none | not yet evaluated | | | stinging nettle | AB | 46789 |
| Coleoptera | Curculionidae | Orchestes hortorum | | none | not yet evaluated | | s | oak | AB | 467 |
| Coleoptera | Curculionidae | Orchestes pilosus | | none | not yet evaluated | | s | oak | B | 4 |
| Coleoptera | Curculionidae | Otiorhynchus ovatus | | none | not yet evaluated | | h | | B | 67 |
| Coleoptera | Curculionidae | Otiorhynchus singularis | Raspberry Weevil | none | not yet evaluated | | s | | A | 6 |
| Coleoptera | Curculionidae | Parethelcus pollinarius | | none | not yet evaluated | | | stinging nettle | AB | 47,10 |
| Coleoptera | Curculionidae | Pelenomus quadrituberculatus | | none | not yet evaluated | | w | Persicaria sp | A | 4 |
| Coleoptera | Curculionidae | Philopeton plagiatum | Marram Weevil | none | not yet evaluated | YES | h | | B | 567 |
| Coleoptera | Curculionidae | Phloeotribus rhododactylus | | none | not yet evaluated | | h | broom | B | 7 |
| Coleoptera | Curculionidae | Phyllobius glaucus | | none | not yet evaluated | | s | | A | 6 |
| Coleoptera | Curculionidae | Phyllobius maculicornis | Green Leaf Weevil | none | not yet evaluated | | s | | A | 6 |
| Coleoptera | Curculionidae | Phyllobius pomaceus | Nettle Weevil | none | not yet evaluated | | g | stinging nettle | A | 67 |
| Coleoptera | Curculionidae | Phyllobius pyri | Common Leaf Weevil | none | not yet evaluated | | s | | AB | 46 |
| Coleoptera | Curculionidae | Phyllobius roboretanus | Small Green Nettle Weevil | none | not yet evaluated | | g | | B | 6 |
| Coleoptera | Curculionidae | Phyllobius virideaeris | Green Nettle Weevil | none | not yet evaluated | | g | | A | 67 |
| Coleoptera | Curculionidae | Rhamphus oxyacanthae | | none | not yet evaluated | | s | hawthorn | AB | 7 |
| Coleoptera | Curculionidae | Rhinocyllus conicus | | [Nationally Scarce (Notable A)] | not yet evaluated | | g | thistles | B | 6 |
| Coleoptera | Curculionidae | Rhinoncus castor | | none | not yet evaluated | | h | sheep's sorrel | AB | 4567 |
| Coleoptera | Curculionidae | Rhinusa antirrhini | | none | not yet evaluated | | g | common toadflax | A | 6 |
| Coleoptera | Curculionidae | Sciaphilus asperatus | Strawberry Root | none | not yet evaluated | | g | | B | 10 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|---------------------------|-----------------|---------------------------------|-------------------|-------------------|--------------|-------------------------------|-------------|------------|
| | | | Weevil | | | | | | | |
| Coleoptera | Curculionidae | Sibinia primita | | [Nationally Scarce (Notable B)] | not yet evaluated | YES | h | <i>Sagina sp</i> | B | 5 |
| Coleoptera | Curculionidae | Sitona hispidulus | | none | not yet evaluated | YES | g | Fabaceae | B | 9 |
| Coleoptera | Curculionidae | Sitona lineatus | Pea-leaf Weevil | none | not yet evaluated | | g | Fabaceae | AB | 4679,10,11 |
| Coleoptera | Curculionidae | Sitona obsoletus | | none | not yet evaluated | | g | Fabaceae | AB | 69 |
| Coleoptera | Curculionidae | Strophosoma melanogrammum | Nut Leaf Weevil | none | not yet evaluated | | s | oak, birch etc | B | 46,10 |
| Coleoptera | Curculionidae | Trachyphloeus scabriculus | | none | not yet evaluated | | h | | B | 56 |
| Coleoptera | Curculionidae | Tychius pusillus | | Nationally Scarce (Notable B) | not yet evaluated | | g | <i>Trifolium dubium</i> | B | 7 |
| Coleoptera | Dermestidae – Larder Beetles, Carpet Beetles etc | Anthrenus fuscus | | none | Least Concern | | | dried plant and animal debris | B | 7 |
| Coleoptera | Dermestidae | Anthrenus verbasci | Carpet Beetle | none | Least Concern | | | dried plant and animal debris | B | 67 |
| Coleoptera | Dermestidae | Ctesias serra | Cobweb Beetle | none | Least Concern | YES | s | dried debris in cobwebs | A | 6 |
| Coleoptera | Dermestidae | Dermestes murinus | | Nationally Scarce | Least Concern | YES | | carrion | B | 5 |
| Coleoptera | Dryopidae – Long-toed Water Beetles | Dryops ernesti | | none | Least Concern | | w/a | | AB | 4567,11 |
| Coleoptera | Dytiscidae – Diving Beetles | Agabus bipustulatus | | none | Least Concern | | a | | A(D1, D2,I) | 469 |
| Coleoptera | Dytiscidae | Agabus uliginosus | | Nationally Scarce | Near Threatened | YES | a | | B(I) | 4 |
| Coleoptera | Dytiscidae | Colymbetes fuscus | | none | Least Concern | | a | | B(P1) | 4 |
| Coleoptera | Dytiscidae | Hydroporus angustatus | | none | Least Concern | | a | | A(I) | 47 |
| Coleoptera | Dytiscidae | Hydroporus incognitus | | none | Least Concern | | a | | A | 9 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|----------------------------|----------------------------|------------|--------|-------------------|-------------------|--------------|-------------|---------------------|--------|
| Coleoptera | Dytiscidae | Hydroporus memnonius | | none | Least Concern | | a | | A(D2) | 49 |
| Coleoptera | Dytiscidae | Hydroporus palustris | | none | Least Concern | | a | | A(D1, D2,I)B(P1,P2) | 46 |
| Coleoptera | Dytiscidae | Hydroporus planus | | none | Least Concern | | a | | A(D1,I) | 46 |
| Coleoptera | Dytiscidae | Hydroporus pubescens | | none | Least Concern | | a | | A(D1) | 6 |
| Coleoptera | Dytiscidae | Hygrotus impressopunctatus | | none | Least Concern | | a | | A(I) | 4 |
| Coleoptera | Dytiscidae | Hygrotus inaequalis | | none | Least Concern | | a | | A(D1) B(P1) | 4 |
| Coleoptera | Dytiscidae | Hyphyrus ovatus | | none | Least Concern | | a | | A(D1) | 4 |
| Coleoptera | Dytiscidae | Ilybius ater | | none | Least Concern | | a | | AB(P1) | 47 |
| Coleoptera | Dytiscidae | Ilybius chalconatus | | none | Least Concern | | a | | B | 4 |
| Coleoptera | Dytiscidae | Ilybius fuliginosus | | none | Least Concern | | a | | A(D1D2)B | 67 |
| Coleoptera | Dytiscidae | Rhantus frontalis | | none | Least Concern | | a | | A | 7 |
| Coleoptera | Elateridae – Click Beetles | Adrastus pallens | | none | not yet evaluated | | | | AB | 78 |
| Coleoptera | Elateridae | Agriotes obscurus | | none | not yet evaluated | | g | | A | 6 |
| Coleoptera | Elateridae | Agriotes pallidulus | | none | not yet evaluated | | | | B | 46 |
| Coleoptera | Elateridae | Agriotes sputator | | none | not yet evaluated | | g | | AB | 456 |
| Coleoptera | Elateridae | Aplotarsus incanus | | none | not yet evaluated | | w | | A | 6 |
| Coleoptera | Elateridae | Athous haemorrhoidalis | | none | not yet evaluated | | s | | AB | 6 |
| Coleoptera | Elateridae | Dalopius marginatus | | none | not yet evaluated | | | | AB | 46 |
| Coleoptera | Elateridae | Denticollis linearis | | none | not yet evaluated | | s | dead wood | AB | 6 |
| Coleoptera | Elateridae | Hypnoidus riparius | | none | not yet evaluated | | w | | B | 5 |
| Coleoptera | Elateridae | Limonium poneli | | none | not yet evaluated | | g | | AB | 46 |
| Coleoptera | Elateridae | Melanotus castanipes | | none | not yet evaluated | | s | dead wood | A | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---|-------------------------|------------------------|---------------------------------|-------------------|-------------------|--------------|------------------------------|----------------------|--------|
| Coleoptera | Elateridae | Prosternon tessellatum | Chequered Click Beetle | none | not yet evaluated | | | | B | 67 |
| Coleoptera | Erirhinidae – Wetland Weevils | Grypus equiseti | Horsetail Weevil | [Nationally Scarce (Notable B)] | not yet evaluated | | | horsetails | A | 4 |
| Coleoptera | Erirhinidae | Notaris acridulus | | none | not yet evaluated | | w | <i>Glyceria</i> | AB | 46,10 |
| Coleoptera | Erirhinidae | Notaris scirpi | | [Nationally Scarce (Notable B)] | not yet evaluated | | w | sedges, club-rushes, bulrush | A | 6 |
| Coleoptera | Geotrupidae – Dor Beetles | Geotrupes spiniger | | none | Least Concern | | g | dung | AB | 7 |
| Coleoptera | Gyrinidae – Whirligig Beetles | Gyrinus substriatus | | none | Least Concern | | a | | A(D1) B(ditch 4) | 4 |
| Coleoptera | Haliplidae – Crawling Water Beetles | Halplus lineatocollis | | none | Least Concern | | a | | A(D1) | 46 |
| Coleoptera | Haliplidae | Halplus obliquus | | none | Least Concern | YES | a | | B(P1) | 4 |
| Coleoptera | Haliplidae | Halplus ruficollis | | none | Least Concern | | a | | B(P1) | 4 |
| Coleoptera | Helophoridae – Water Scavenger Beetles | Helophorus aequalis | | none | Least Concern | | a | | A(D2) | 6 |
| Coleoptera | Helophoridae | Helophorus griseus | | none | Least Concern | | a | | B(P2) | 4 |
| Coleoptera | Helophoridae | Helophorus minutus | | none | Least Concern | | a | | A(D2) | 6 |
| Coleoptera | Helophoridae | Helophorus obscurus | | none | Least Concern | | a | | A(D1, D2,I) | 4 |
| Coleoptera | Helophoridae | Helophorus strigifrons | | Nationally Scarce | Least Concern | YES | a | | B | 4 |
| Coleoptera | Heteroceridae – Variegated Mud-loving Beetles | Heterocerus fenestratus | | none | Least Concern | | w | | A | 7 |
| Coleoptera | Heteroceridae | Heterocerus fuscus | | [Nationally Rare] | [VULNERABLE] | | w | | A | 4 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|---------------------------|---------------------|-------------------|---------------|-------------------|--------------|------------------|---------------------------|---------|
| Coleoptera | Histeridae – Clown Beetles | Hister unicolor | Large Dung Clown | none | Least Concern | | | dung | A | 679 |
| Coleoptera | Histeridae | Kissister minimus | Little Clown | none | Least Concern | | h | | B | 6 |
| Coleoptera | Histeridae | Margarinotus brunneus | The Necromancer | none | Least Concern | | | carrion | B | 5 |
| Coleoptera | Histeridae | Margarinotus purpurascens | Blushing Clown | none | Least Concern | YES | h | | AB | 45 |
| Coleoptera | Histeridae | Margarinotus ventralis | Small Dung Clown | none | Least Concern | YES | | dung | AB | 67 |
| Coleoptera | Histeridae | Saprinus aeneus | Bronze Mirror Clown | Nationally Scarce | Least Concern | YES | h | carrion and dung | B | 58 |
| Coleoptera | Histeridae | Saprinus planiusculus | Coastal Clown | Nationally Scarce | Least Concern | YES | h | carrion | B | 5 |
| Coleoptera | Histeridae | Saprinus semistriatus | Carrion Clown | none | Least Concern | YES | | carrion | B | 5678 |
| Coleoptera | Hydraenidae – Minute Moss Beetles | Hydraena riparia | | none | Least Concern | | a | | A(D2) | 46 |
| Coleoptera | Hydraenidae | Hydraena testacea | | none | Least Concern | YES | a | | A(D1) | 4 |
| Coleoptera | Hydraenidae | Ochthebius bicolon | | none | Least Concern | YES | a | | A(D1) | 4 |
| Coleoptera | Hydraenidae | Ochthebius minimus | | none | Least Concern | | a | | A(D1, D2,I)B(P2) | 46 |
| Coleoptera | Hydrophilidae – Water Scavenger Beetles (and dung scavenger beetles) | Anacaena globulus | | none | Least Concern | | w | | B | 5,11 |
| Coleoptera | Hydrophilidae | Anacaena limbata | | none | Least Concern | | a | | A(D1, D2,I)B(P1,P2,ditch) | 456,11 |
| Coleoptera | Hydrophilidae | Anacaena lutescens | | none | Least Concern | | a | | AB(P2) | 4 |
| Coleoptera | Hydrophilidae | Cercyon convexiusculus | | none | Least Concern | | w | | B | 11 |
| Coleoptera | Hydrophilidae | Cercyon granarius | | Nationally Scarce | Least Concern | | w | | A(D2) B(ditch) | 4569,11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|--------------------------|------------|-------------------|-------------------|-------------------|--------------|---------------------------|----------------------|--------|
| | | | | | | | | | ,fen) | |
| Coleoptera | Hydrophilidae | Cercyon haemorrhoidalis | | none | not yet evaluated | | | dung | A | 6 |
| Coleoptera | Hydrophilidae | Cercyon impressus | | none | not yet evaluated | | | dung | A | 9 |
| Coleoptera | Hydrophilidae | Cercyon lateralis | | none | not yet evaluated | | | dung | A | 67 |
| Coleoptera | Hydrophilidae | Cercyon marinus | | none | Least Concern | | w | | A(D2) | 79 |
| Coleoptera | Hydrophilidae | Cercyon melanocephalus | | none | not yet evaluated | | | dung | A | 6 |
| Coleoptera | Hydrophilidae | Cercyon pygmaeus | | none | not yet evaluated | | | dung | A | 6 |
| Coleoptera | Hydrophilidae | Cercyon quisquilius | | none | not yet evaluated | | | dung | AB | 67 |
| Coleoptera | Hydrophilidae | Cercyon sternalis | | none | Least Concern | | w | | A(D2) B(P1,ditch) | 4567 |
| Coleoptera | Hydrophilidae | Cercyon tristis | | none | Least Concern | | w | | A(D2) | 46 |
| Coleoptera | Hydrophilidae | Cercyon ustulatus | | none | Least Concern | | w | | A(D2) | 4 |
| Coleoptera | Hydrophilidae | Coelostoma orbiculare | | none | Least Concern | | a | | B(ditch) | 45 |
| Coleoptera | Hydrophilidae | Cryptopleurum minutum | | none | not yet evaluated | | | dung usually | AB | 56,11 |
| Coleoptera | Hydrophilidae | Cryptopleurum subtile | | none | not yet evaluated | YES | | decaying vegetation heaps | B | 7 |
| Coleoptera | Hydrophilidae | Cymbiodyta marginella | | none | Least Concern | YES | a | | A(I)B | 4,10 |
| Coleoptera | Hydrophilidae | Enochrus coarctatus | | none | Least Concern | | a | | B | 7 |
| Coleoptera | Hydrophilidae | Enochrus melanocephalus | | none | Least Concern | | a | | B | 7 |
| Coleoptera | Hydrophilidae | Enochrus nigrinus | | Nationally Scarce | Near Threatened | YES | a | | A(D1) | 47 |
| Coleoptera | Hydrophilidae | Enochrus quadripunctatus | | Nationally Scarce | Least Concern | | a | | AB | 7 |
| Coleoptera | Hydrophilidae | Helochaeres lividus | | none | Least Concern | | a | | A(D2) B(P1,P2) | 49,10 |
| Coleoptera | Hydrophilidae | Hydrobius fuscipes sens. | | none | not yet evaluated | | a | | AB(P1) | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|---------------------------|----------------------|--------|-------------------|-------------------|--------------|------------------|-------------------|-----------|
| | | str. | | | | | | | | |
| Coleoptera | Hydrophilidae | Hydrobius rothenbergii | | none | not yet evaluated | | a | | A(D2) | 4 |
| Coleoptera | Hydrophilidae | Hydrobius subrotundus | | none | not yet evaluated | | a | | A(D1) B(P1,P2) | 467 |
| Coleoptera | Hydrophilidae | Laccobius bipunctatus | | none | Least Concern | | a | | A(D2) B(P1) | 4679 |
| Coleoptera | Hydrophilidae | Megasternum concinnum | | none | not yet evaluated | | | | A | 4 |
| Coleoptera | Hydrophilidae | Sphaeridium bipustulatum | | none | not yet evaluated | | | dung | A | 6 |
| Coleoptera | Hydrophilidae | Sphaeridium lunatum | | none | not yet evaluated | | | dung | AB | 469 |
| Coleoptera | Hydrophilidae | Sphaeridium scarabaeoides | | none | not yet evaluated | | | dung | A | 9 |
| Coleoptera | Kateretidae – Short-winged Flower Beetles | Brachypterus urticae | Nettle Pollen Beetle | none | not yet evaluated | | | stinging nettle | AB | 6,10 |
| Coleoptera | Kateretidae | Kateretes pusillus | | none | not yet evaluated | | w | sedges | A | 4 |
| Coleoptera | Kateretidae | Kateretes rufilabris | | none | not yet evaluated | | w | Carex and Juncus | B | 7 |
| Coleoptera | Lampyridae – Glow Worms | Lampyrus noctiluca | Glow-worm | none | Least Concern | | | snails | AB | 47,11 |
| Coleoptera | Latridiidae – Minute Brown Scavenger Beetles | Cartodere bifasciata | | none | not yet evaluated | | | | A | 4 |
| Coleoptera | Latridiidae | Corticaria impressa | | none | not yet evaluated | | | | A | 4 |
| Coleoptera | Latridiidae | Corticarina minuta | | none | not yet evaluated | | | | A | 469,11 |
| Coleoptera | Latridiidae | Corticarina similata | | none | not yet evaluated | | s | | A | 6 |
| Coleoptera | Latridiidae | Cortinicara gibbosa | | none | not yet evaluated | | | | AB | 467,10,11 |
| Coleoptera | Leiodidae – Round Fungus Beetles | Catops morio | | none | not yet evaluated | | | | A | 4 |
| Coleoptera | Leiodidae | Choleva angustata | | none | not yet evaluated | | | | AB | 45 |
| Coleoptera | Leiodidae | Choleva jeanneli | | none | not yet evaluated | | | | B | 56 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|--------------------------|----------------------|-------------------|-------------------|-------------------|--------------|-----------------------------------|------|---------|
| Coleoptera | Leiodidae | Choleva oblonga | | none | not yet evaluated | | | | A | 6 |
| Coleoptera | Leiodidae | Ptomaphagus subvillosus | | none | not yet evaluated | | | | B | 5 |
| Coleoptera | Melandryidae – False Darkling Beetles | Abdera biflexuosa | | Nationally Scarce | Least Concern | | s | dead wood, usually off oak boughs | B | 67 |
| Coleoptera | Melyridae – Soft-winged Flower Beetles | Anthocomus fasciatus | | Nationally Scarce | Least Concern | YES | | | B | 4 |
| Coleoptera | Melyridae | Anthocomus rufus | | none | Least Concern | | w | usually Phragmites stands | B | 9 |
| Coleoptera | Melyridae | Axinotarsus marginalis | | none | Least Concern | YES | | | A | 67 |
| Coleoptera | Melyridae | Cordylepherus viridis | | none | Least Concern | | g | | A | 6 |
| Coleoptera | Melyridae | Dasytes aeratus | | none | Least Concern | | s | | AB | 46 |
| Coleoptera | Melyridae | Malachius bipustulatus | Malachite Beetle | none | Least Concern | | g | | B | 6 |
| Coleoptera | Mordellidae – Tumbling Flower Beetles | Mordellistena variegata | | Nationally Scarce | Least Concern | | s | | B | 67 |
| Coleoptera | Mycetophagidae – Hairy Fungus Beetles | Litargus connexus | | none | Least Concern | | s | | A | 6 |
| Coleoptera | Mycetophagidae | Typhaea haagi | | none | Not Applicable | YES | | | B | 7 |
| Coleoptera | Nitidulidae – Sap and Pollen Beetles | Epuraea aestiva | | none | not yet evaluated | | | | A | 4 |
| Coleoptera | Nitidulidae | Epuraea unicolor | | none | not yet evaluated | | | | AB | 4,10,11 |
| Coleoptera | Nitidulidae | Glischrochilus hortensis | | none | not yet evaluated | | | | AB | 4579 |
| Coleoptera | Nitidulidae | Meligethes aeneus | Common Pollen Beetle | none | not yet evaluated | | | Brassicaceae | AB | 467 |
| Coleoptera | Nitidulidae | Meligethes matronalis | | none | not yet evaluated | | g | dame's violet | A | 6 |
| Coleoptera | Nitidulidae | Meligethes nigrescens | | none | not yet evaluated | | g | clovers | AB | 4 |
| Coleoptera | Nitidulidae | Meligethes ovatus | | none | not yet evaluated | | g | ground ivy | AB | 67 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|--------------------------|------------------------|-------------------------------|-------------------|-------------------|--------------|--------------------------------------|------|------------|
| Coleoptera | Nitidulidae | Meligethes ruficornis | | none | not yet evaluated | | g | black horehound | A | 6 |
| Coleoptera | Nitidulidae | Pria dulcamarae | | none | not yet evaluated | YES | | woody nightshade | A | 6 |
| Coleoptera | Nitidulidae | Soronia grisea | | none | not yet evaluated | YES | | | AB | 47 |
| Coleoptera | Nitidulidae | Thalycra fervida | | Nationally Scarce (Notable B) | not yet evaluated | YES | | sap runs and decaying organic matter | A | |
| Coleoptera | Oedemeridae | Oedemera lurida | | none | Least Concern | | g | | AB | 67 |
| Coleoptera | Oedemeridae | Oedemera nobilis | Swollen-thighed Beetle | none | Least Concern | | g | | AB | 67 |
| Coleoptera | Orsodacnidae – Orsodacnid Leaf Beetles | Orsodacne cerasi | | Nationally Scarce | Least Concern | YES | s | | A | 6 |
| Coleoptera | Phalacridae | Olibrus aeneus | | none | Least Concern | | g/h | often on mayweeds | B | 4 |
| Coleoptera | Phalacridae | Olibrus corticalis | | none | Least Concern | | g | ragworts, fleabanes | A | 49 |
| Coleoptera | Phalacridae | Olibrus liquidus | | none | Least Concern | | g | | B | 46,10 |
| Coleoptera | Phalacridae | Olibrus millefolii | | Nationally Scarce | Least Concern | | h | yarrow | B | 7 |
| Coleoptera | Phalacridae | Olibrus pygmaeus | | Nationally Scarce | Least Concern | | h | common cudweed | B | 7 |
| Coleoptera | Phalacridae | Phalacrus corruscus | | none | Least Concern | YES | g | smutted foliage, ? cereal crops | A | 4 |
| Coleoptera | Phalacridae | Stilbus testaceus | | none | Least Concern | | | | AB | 4679,10,11 |
| Coleoptera | Ptiliidae – Feather-wing Beetles | Ptenidium pusillum | | none | not yet evaluated | | | | B | 6 |
| Coleoptera | Ptinidae – Wood-borer Beetles | Anobium inexpectatum | | none | Least Concern | | s | dead stems of ivy | A | 6 |
| Coleoptera | Ptinidae | Anobium punctatum | Woodworm | none | Least Concern | | s | dead wood, usually oaks | B | 7 |
| Coleoptera | Ptinidae | Hadrobregmus denticollis | | Nationally Scarce | Least Concern | YES | s | dead wood | A | 6 |
| Coleoptera | Ptinidae | Hemicoelus fulvicornis | | none | Least Concern | | s | dead wood, | AB | 67 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---|--------------------------------|---------------------------|----------------------|-------------------|-------------------|--------------|-----------------------------|------|--------|
| Coleoptera | Ptinidae | Ochina ptinoides | Ivy Boring Beetle | none | Least Concern | YES | s | usually oaks ivy | A | 6 |
| Coleoptera | Ptinidae | Ptinomorphus imperialis | | none | Least Concern | | s | dead wood | B | 6 |
| Coleoptera | Rhynchitidae – Tooth-nosed Snout Weevils | Involvulus icosandriae | Apple Twig Cutter | none | not yet evaluated | | s | blacktjorn, hawthorn etc | A | 4 |
| Coleoptera | Rhynchitidae | Neocoenorrhinus minutus | | none | not yet evaluated | YES | s | oaks | B | 4 |
| Coleoptera | Rhynchitidae | Tatianaerhynchites aequatus | Apple Fruit Rhynchites | none | not yet evaluated | | s | hawthorn | AB | 46 |
| Coleoptera | Salpingidae – Narrow-waisted Bark Beetles | Lissodema denticollis | | Nationally Scarce | Least Concern | | s | dead wood | B | 6 |
| Coleoptera | Salpingidae | Salpingus planirostris | | none | Least Concern | | s | dead wood | AB | 467 |
| Coleoptera | Salpingidae | Vincenzellus ruficollis | | none | Least Concern | | s | dead wood | B | 7 |
| Coleoptera | Scarabaeidae – Dung Beetles and Chafers | Acrossus depressus | | none | Least Concern | | | dung | A | 46 |
| Coleoptera | Scarabaeidae | Acrossus rufipes | | none | Least Concern | | | dung | AB | 7 |
| Coleoptera | Scarabaeidae | Agrilinus ater | | none | Least Concern | | | dung | A | 4 |
| Coleoptera | Scarabaeidae | Amphimallon solstitiale | Summer Chafer | none | Least Concern | | | | B | 7 |
| Coleoptera | Scarabaeidae | Aphodius fimetarius | | none | Least Concern | | | dung | AB | 6 |
| Coleoptera | Scarabaeidae | Aphodius foetidus | | none | Least Concern | | | dung | AB | 6 |
| Coleoptera | Scarabaeidae | Bodiloides ictericus | | Nationally Scarce | Least Concern | | h | dung | B | 6 |
| Coleoptera | Scarabaeidae | Bodilopsis rufa | | none | Least Concern | | | dung | A | 79 |
| Coleoptera | Scarabaeidae | Calamosternus granarius | | none | Least Concern | | | dung | AB | 456 |
| Coleoptera | Scarabaeidae | Chilothorax distinctus | | Nationally Scarce | Least Concern | | h | dung | B | 5 |
| Coleoptera | Scarabaeidae | Colobopterus erraticus | | none | Least Concern | | g | dung | A | 6 |
| Coleoptera | Scarabaeidae | Esymus pusillus | | none | Least Concern | | | dung | B | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|-------------------|------------------------------------|---------------------------|----------------|-------------------|---------------|-------------------|--------------|-------------|--------------|----------|
| Coleoptera | Scarabaeidae | Hoplia philanthus | Welsh Chafer | none | Least Concern | | | | AB | 6 |
| Coleoptera | Scarabaeidae | Melinopterus prodromus | | none | Least Concern | | | dung | B | 4 |
| Coleoptera | Scarabaeidae | Melinopterus sphacelatus | | none | Least Concern | | | dung | AB | 4,11 |
| Coleoptera | Scarabaeidae | Onthophagus joannae | | none | Least Concern | | | dung | B | 7 |
| Coleoptera | Scarabaeidae | Onthophagus similis | | none | Least Concern | | | dung | AB | 456 |
| Coleoptera | Scarabaeidae | Otophorus haemorrhoidalis | | none | Least Concern | | | dung | AB | 6 |
| Coleoptera | Scarabaeidae | Phyllopertha horticola | Bracken Chafer | none | Least Concern | | g | | A | 6 |
| Coleoptera | Scarabaeidae | Serica brunnea | Brown Chafer | none | Least Concern | | h | | B | 7 |
| Coleoptera | Scarabaeidae | Teuchestes fossor | | none | Least Concern | YES | | dung | A | 67 |
| Coleoptera | Scirtidae – Marsh Beetles | Contacyphon coarctatus | | none | Least Concern | | a/w | | AB | 456 |
| Coleoptera | Scirtidae | Contacyphon ochraceus | | none | Least Concern | | a/w | | B | 6 |
| Coleoptera | Scirtidae | Contacyphon padi | | none | Least Concern | | a/w | | AB | 4 |
| Coleoptera | Scirtidae | Contacyphon variabilis | | none | Least Concern | | a/w | | B | 4 |
| Coleoptera | Scirtidae | Elodes elongatus | | Nationally Scarce | Least Concern | | a/w | | B | 6 |
| Coleoptera | Scirtidae | Microcara testacea | | none | Least Concern | | a/s | | A | 6 |
| Coleoptera | Scirtidae | Scirtes hemisphaericus | | none | Least Concern | | w | | B | 7 |
| <i>Coleoptera</i> | <i>Scirtidae</i> | <i>Scirtidae larva</i> | | none | | | <i>a</i> | | <i>A(D2)</i> | <i>4</i> |
| Coleoptera | Scraptiidae – False Flower Beetles | Anaspis fasciata | | none | Least Concern | | s | dead wood | AB | 46 |
| Coleoptera | Scraptiidae | Anaspis garneysi | | none | Least Concern | | s | dead wood | AB | 4 |
| Coleoptera | Scraptiidae | Anaspis maculata | | none | Least Concern | | s | dead wood | AB | 46 |
| Coleoptera | Scraptiidae | Anaspis pulicaria | | none | Least Concern | | | | AB | 67 |
| Coleoptera | Scraptiidae | Anaspis regimbarti | | none | Least Concern | | s | dead wood | B | 4 |
| Coleoptera | Scraptiidae | Anaspis thoracica | | Nationally Scarce | Least Concern | | s | dead wood | B | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|--|------------------------|-----------------------------|-------------------------------|-------------------|-------------------|--------------|-----------------------------------|------|----------|
| Coleoptera | Silphidae – Carrion and Burying Beetles | Ablattaria laevigata | Smooth Snail-hunter | none | Least Concern | | h | snails | B | 5 |
| Coleoptera | Silphidae | Nicrophorus humator | The Undertaker | none | Least Concern | | | carrion | B | 8 |
| Coleoptera | Silphidae | Nicrophorus vespillo | Bent-legged Burying Beetle | none | Least Concern | | | carrion | A | 4 |
| Coleoptera | Silphidae | Oiceoptoma thoracicum | Red-breasted Carrion Beetle | none | Least Concern | | | carrion, fungi and dung | B | 5 |
| Coleoptera | Silphidae | Phosphuga atrata | Common Snail-hunter | none | Least Concern | | | snails | B | 10,11 |
| Coleoptera | Silphidae | Silpha tristis | Grassland Carrion Beetle | none | Least Concern | | g | slugs? | AB | 67 |
| Coleoptera | Silphidae | Thanatophilus rugosus | Wrinkled Death-lover | none | Least Concern | | | carrion | B | 5 |
| Coleoptera | Silphidae | Thanatophilus sinuatus | Smooth Death-lover | none | Least Concern | | | carrion | B | 8 |
| Coleoptera | Silvanidae – Silvanid Beetles | Psammoecus bipunctatus | | none | not yet evaluated | | w | | AB | 46,10,11 |
| Coleoptera | Sphindidae – Cryptic Slime-mould Beetles | Sphindus dubius | | Nationally Scarce (Notable B) | not yet evaluated | | s | slime moulds | B | 7 |
| Coleoptera | Staphylinidae – Rove Beetles | Acrotona muscorum | | none | not yet evaluated | | | dung etc | B | 5 |
| Coleoptera | Staphylinidae | Acrotona parvula | | none | not yet evaluated | | | dung etc | A | 9 |
| Coleoptera | Staphylinidae | Acrotona pseudotenera | | none | not yet evaluated | | | usually decaying vegetation heaps | B | 5 |
| Coleoptera | Staphylinidae | Aleochara bilineata | | none | not yet evaluated | | | | B | 6 |
| Coleoptera | Staphylinidae | Aleochara bipustulata | | none | not yet evaluated | | | dung, carrion etc | B | 456 |
| Coleoptera | Staphylinidae | Aleochara brevipennis | | Nationally Scarce (Notable) | not yet evaluated | | g | | A | 469 |
| Coleoptera | Staphylinidae | Aleochara funebris | | none | not yet evaluated | YES | | | B | 56 |
| Coleoptera | Staphylinidae | Aleochara lanuginosa | | none | not yet evaluated | | | dung | AB | 6 |
| Coleoptera | Staphylinidae | Aleochara lata | | none | not yet evaluated | YES | | carrion | B | 5 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|------------------------|------------|--|-------------------|-------------------|--------------|---------------------------|------|----------|
| Coleoptera | Staphylinidae | Aleochara tristis | | none | not yet evaluated | | | dung | A | 9 |
| Coleoptera | Staphylinidae | Aleochara verna | | [Nationally Rare (Red Data Book insufficiently known)] | not yet evaluated | | | dung | B | 5 |
| Coleoptera | Staphylinidae | Aloconota gregaria | | none | not yet evaluated | | | | AB | 45,11 |
| Coleoptera | Staphylinidae | Amarochara forticornis | | Nationally Rare (Red Data Book insufficiently known) | not yet evaluated | YES | w? | | A | 11 |
| Coleoptera | Staphylinidae | Amischa analis | | none | not yet evaluated | | | | AB | 469,11 |
| Coleoptera | Staphylinidae | Amischa decipiens | | none | not yet evaluated | | | | B | 9,11 |
| Coleoptera | Staphylinidae | Amischa forcipata | | none | not yet evaluated | | | | A | 4,11 |
| Coleoptera | Staphylinidae | Amischa nigrofusca | | none | not yet evaluated | YES | | | AB | 4,11 |
| Coleoptera | Staphylinidae | Anotylus nitidulus | | none | Least Concern | YES | | dung, carrion etc | AB | 467 |
| Coleoptera | Staphylinidae | Anotylus rugosus | | none | Least Concern | | | | AB | 45679,11 |
| Coleoptera | Staphylinidae | Anotylus sculpturatus | | none | Least Concern | | | dung usually | B | 67 |
| Coleoptera | Staphylinidae | Astenus lyonessius | | none | Least Concern | | g | | B | 10 |
| Coleoptera | Staphylinidae | Astenus pulchellus | | none | Least Concern | | | decaying vegetation heaps | A | 11 |
| Coleoptera | Staphylinidae | Atheta aquatica | | none | not yet evaluated | | | | B | 4 |
| Coleoptera | Staphylinidae | Atheta basicornis | | Nationally Scarce (Notable) | not yet evaluated | YES | w | | A | 6 |
| Coleoptera | Staphylinidae | Atheta crassicornis | | none | not yet evaluated | | | | B | 10 |
| Coleoptera | Staphylinidae | Atheta graminicola | | none | not yet evaluated | | w | | AB | 49,11 |
| Coleoptera | Staphylinidae | Atheta scapularis | | Nationally Scarce (Notable) | not yet evaluated | YES | | | B | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|--------------------------------|------------|-------------------------------|-------------------|-------------------|--------------|----------------------------------|------|--------|
| Coleoptera | Staphylinidae | Atheta vaga | | none | not yet evaluated | YES | | | B | 5 |
| Coleoptera | Staphylinidae | Autalia rivularis | | none | not yet evaluated | | | dung usually | A | 9 |
| Coleoptera | Staphylinidae | Bisnius fimetarius | | none | Least Concern | | | dung and decaying organic matter | B | 56 |
| Coleoptera | Staphylinidae | Bledius dissimilis | | Nationally Scarce | Least Concern | | w | | A | 7 |
| Coleoptera | Staphylinidae | Bledius gallicus | | none | Least Concern | | w | | AB | 4679 |
| Coleoptera | Staphylinidae | Bolitobius castaneus | | none | Least Concern | | | | B | 11 |
| Coleoptera | Staphylinidae | Bryaxis bulbifer | | none | not yet evaluated | | | | AB | 4 |
| Coleoptera | Staphylinidae | Carpelimus corticinus | | none | Least Concern | | w | | AB | 46 |
| Coleoptera | Staphylinidae | Carpelimus elongatulus | | none | Least Concern | | w | | B | 11 |
| Coleoptera | Staphylinidae | Carpelimus impressus | | none | Least Concern | YES | w | | B | 11 |
| Coleoptera | Staphylinidae | Carpelimus incongruus | | none | Least Concern | YES | w | | A | 6 |
| Coleoptera | Staphylinidae | Carpelimus lindrothi | | Nationally Scarce | Least Concern | YES | w | | A | 9 |
| Coleoptera | Staphylinidae | Carpelimus pusillus | | none | Least Concern | | | | A | 9 |
| Coleoptera | Staphylinidae | Carpelimus rivularis | | none | Least Concern | | w | | A | 49 |
| Coleoptera | Staphylinidae | Chaetida (Atheta) longicornis | | none | not yet evaluated | | | dung | AB | 59 |
| Coleoptera | Staphylinidae | Coprothassa (Atheta) melanaria | | none | not yet evaluated | | | dung | B | 5 |
| Coleoptera | Staphylinidae | Cordalia obscura | | none | not yet evaluated | | | | A | 11 |
| Coleoptera | Staphylinidae | Creophilus maxillosus | | none | Least Concern | YES | | carrion | B | 5 |
| Coleoptera | Staphylinidae | Cypha discoidea | | Nationally Scarce (Notable B) | not yet evaluated | | w | | A | 4 |
| Coleoptera | Staphylinidae | Cypha longicornis | | none | not yet evaluated | | | | B | 7,11 |
| Coleoptera | Staphylinidae | Datomicro (Atheta) canescens | | none | not yet evaluated | YES | | | B | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|-----------------------------|------------|-----------------------------|-------------------|-------------------|--------------|---------------------------|------|---------|
| Coleoptera | Staphylinidae | Datomicra (Atheta) celata | | none | not yet evaluated | | | | B | 6 |
| Coleoptera | Staphylinidae | Datomicra (Atheta) nigra | | none | not yet evaluated | | | decaying organic matter | B | 6 |
| Coleoptera | Staphylinidae | Deinopsis erosa | | none | not yet evaluated | | w | | A | 9 |
| Coleoptera | Staphylinidae | Dimetrota (Atheta) nigripes | | none | not yet evaluated | | | dung | A | 69 |
| Coleoptera | Staphylinidae | Dimetrotina laticollis | | none | not yet evaluated | | | decaying vegetation heaps | B | 10 |
| Coleoptera | Staphylinidae | Dinaraea angustula | | none | not yet evaluated | | | | AB | 4 |
| Coleoptera | Staphylinidae | Dochmonota clancula | | Nationally Scarce (Notable) | not yet evaluated | | w | | B | 4 |
| Coleoptera | Staphylinidae | Drusilla canaliculata | | none | not yet evaluated | | g | | B | 6,10,11 |
| Coleoptera | Staphylinidae | Encephalus complicans | | none | not yet evaluated | | | | B | 6 |
| Coleoptera | Staphylinidae | Euaesthetus ruficapillus | | none | Least Concern | | w | | B | 4,10,11 |
| Coleoptera | Staphylinidae | Gabrius breviventer | | none | Least Concern | | w | | AB | 46,11 |
| Coleoptera | Staphylinidae | Geostiba circellaris | | none | not yet evaluated | | | | AB | 11 |
| Coleoptera | Staphylinidae | Gnypeta carbonaria | | none | not yet evaluated | | w | | A | 9 |
| Coleoptera | Staphylinidae | Gnypeta rubrior | | none | not yet evaluated | YES | w | | A | 9 |
| Coleoptera | Staphylinidae | Gyrohypnus fracticornis | | none | Least Concern | | | dung usually | AB | 6,11 |
| Coleoptera | Staphylinidae | Habrocerus capillaricornis | | none | Least Concern | | | decaying organic matter | B | 6,10,11 |
| Coleoptera | Staphylinidae | Hapalaraea pygmaea | | none | Least Concern | | s | | A | 6 |
| Coleoptera | Staphylinidae | Heterothops minutus | | none | Least Concern | | | decaying vegetation heaps | B | 6,11 |
| Coleoptera | Staphylinidae | Hygronoma dimidiata | | none | not yet evaluated | | w | | A | 4 |
| Coleoptera | Staphylinidae | Ischnosoma splendidum | | none | Least Concern | | | | AB | 4,11 |
| Coleoptera | Staphylinidae | Lathrobium brunnipes | | none | Least Concern | | | | A | 11 |
| Coleoptera | Staphylinidae | Lathrobium fovulum | | Nationally Scarce (Notable) | Least Concern | | w | | B | 11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|-----------------------------------|------------|-------------------|-------------------|-------------------|--------------|---------------------------|------|-----------|
| | | | | Scarce | | | | | | |
| Coleoptera | Staphylinidae | Lathrobium geminum | | none | Least Concern | | | | AB | 6,11 |
| Coleoptera | Staphylinidae | Lesteva longoelytrata | | none | Least Concern | YES | w | | B | 45 |
| Coleoptera | Staphylinidae | Lesteva sicula | | none | Least Concern | | w | | AB | 4,10 |
| Coleoptera | Staphylinidae | Liogluta longiuscula | | none | not yet evaluated | | | | B | 5 |
| Coleoptera | Staphylinidae | Lithocharis nigriceps | | none | Least Concern | | | decaying vegetation heaps | B | 10,11 |
| Coleoptera | Staphylinidae | Meotica filiformis | | none | not yet evaluated | YES | w | | A | 4 |
| Coleoptera | Staphylinidae | Microdota (Atheta) indubia | | none | not yet evaluated | YES | | | B | 6 |
| Coleoptera | Staphylinidae | Mocyta (Atheta) fungi | | none | not yet evaluated | | | | AB | 11 |
| Coleoptera | Staphylinidae | <i>Mocyta (Atheta) fungi</i> agg. | | | | | | | AB | 46 |
| Coleoptera | Staphylinidae | Myllaena minuta | | none | not yet evaluated | | w | | B | 4 |
| Coleoptera | Staphylinidae | Nehemitropia lividipennis | | none | not yet evaluated | | | decaying vegetation heaps | B | 9,10 |
| Coleoptera | Staphylinidae | Ochthephilum fracticorne | | none | Least Concern | | | | B | 4 |
| Coleoptera | Staphylinidae | Ocypus aeneocephalus | | none | Least Concern | | g | | A | 4 |
| Coleoptera | Staphylinidae | Ocyusa maura | | none | not yet evaluated | | w | | B | 11 |
| Coleoptera | Staphylinidae | Ocyusa picina | | none | not yet evaluated | | w | | AB | 459,10,11 |
| Coleoptera | Staphylinidae | Omalium oxyacanthae | | Nationally Scarce | Least Concern | YES | | decaying organic matter | B | 5 |
| Coleoptera | Staphylinidae | Omalium rivulare | | none | Least Concern | | | | B | 11 |
| Coleoptera | Staphylinidae | Ontholestes murinus | | none | Least Concern | | | dung | A | 6 |
| Coleoptera | Staphylinidae | Othius angustus | | none | Least Concern | | | | B | 11 |
| Coleoptera | Staphylinidae | Othius laeviusculus | | none | Least Concern | | | | AB | 56 |
| Coleoptera | Staphylinidae | Ousipalia caesula | | none | not yet evaluated | | h | | B | 6 |
| Coleoptera | Staphylinidae | Oxypoda brevicornis | | none | not yet evaluated | | | | AB | 67 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|--------------------------------|------------|-----------------------------|-------------------|-------------------|--------------|---------------------------|------|-----------|
| Coleoptera | Staphylinidae | Oxypoda elongatula | | none | not yet evaluated | YES | w | | AB | 49,10,11 |
| Coleoptera | Staphylinidae | Oxypoda ferruginea | | none | not yet evaluated | YES | h | | B | 11 |
| Coleoptera | Staphylinidae | Oxypoda haemorrhoea | | none | not yet evaluated | | | decaying vegetation heaps | A | 6 |
| Coleoptera | Staphylinidae | Oxypoda lurida | | Nationally Scarce (Notable) | not yet evaluated | YES | h | | B | 5 |
| Coleoptera | Staphylinidae | Oxytelus laqueatus | | none | Least Concern | | | dung | AB | 67 |
| Coleoptera | Staphylinidae | Oxytelus piceus | | Nationally Scarce | Least Concern | YES | h | dung | A | 7 |
| Coleoptera | Staphylinidae | Pachnida nigella | | none | not yet evaluated | | w | | A | 4 |
| Coleoptera | Staphylinidae | Paederus riparius | | none | Least Concern | | w | | AB | 46 |
| Coleoptera | Staphylinidae | Philhygra (Atheta) elongatula | | none | not yet evaluated | YES | w | | A | 4 |
| Coleoptera | Staphylinidae | Philhygra (Atheta) gyllenhalii | | none | not yet evaluated | YES | w | | B | 10 |
| Coleoptera | Staphylinidae | Philhygra (Atheta) malleus | | none | not yet evaluated | YES | w | | AB | 679,10 |
| Coleoptera | Staphylinidae | Philhygra (Atheta) volans | | none | not yet evaluated | | w | | A | 4 |
| Coleoptera | Staphylinidae | Philonthus carbonarius | | none | Least Concern | | | | AB | 469,10,11 |
| Coleoptera | Staphylinidae | Philonthus cognatus | | none | Least Concern | | | | AB | 469,10 |
| Coleoptera | Staphylinidae | Philonthus concinnus | | none | Least Concern | | | | AB | 6,11 |
| Coleoptera | Staphylinidae | Philonthus cruentatus | | none | Least Concern | | | often in dung | A | 6 |
| Coleoptera | Staphylinidae | Philonthus debilis | | none | Least Concern | YES | | decaying vegetation heaps | B | 9 |
| Coleoptera | Staphylinidae | Philonthus discoideus | | none | Least Concern | | | dung and manure heaps | A | 6 |
| Coleoptera | Staphylinidae | Philonthus intermedius | | none | Least Concern | | | | A | 6 |
| Coleoptera | Staphylinidae | Philonthus laminatus | | none | Least Concern | | | | A | 46 |
| Coleoptera | Staphylinidae | Philonthus marginatus | | none | Least Concern | | | dung usually | A | 69 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|---------------------------|------------|--------|-------------------|-------------------|--------------|--|------|----------|
| Coleoptera | Staphylinidae | Philonthus micantoides | | none | Least Concern | YES | w | | A | 46 |
| Coleoptera | Staphylinidae | Philonthus nigrita | | none | Least Concern | | w | | B | 5 |
| Coleoptera | Staphylinidae | Philonthus politus | | none | Least Concern | | | carrion often | AB | 56 |
| Coleoptera | Staphylinidae | Philonthus quisquiliarius | | none | Least Concern | | w | | AB | 45 |
| Coleoptera | Staphylinidae | Philonthus rectangulus | | none | Least Concern | | | dung heaps etc | A | 6 |
| Coleoptera | Staphylinidae | Philonthus sanguinolentus | | none | Least Concern | | | usually in dung | A | 6 |
| Coleoptera | Staphylinidae | Philonthus splendens | | none | Least Concern | | | | A | 69 |
| Coleoptera | Staphylinidae | Philonthus tenuicornis | | none | Least Concern | | | | AB | 46 |
| Coleoptera | Staphylinidae | Philonthus varians | | none | Least Concern | | | often in dung | AB | 569,11 |
| Coleoptera | Staphylinidae | Philorinum sordidum | | none | Least Concern | | h | gorse | B | 4 |
| Coleoptera | Staphylinidae | Phloeopora scribeae | | none | not yet evaluated | YES | s | dead wood etc | A | 4 |
| Coleoptera | Staphylinidae | Platystethus alutaceus | | none | Least Concern | | w | | A | 4 |
| Coleoptera | Staphylinidae | Platystethus cornutus | | none | Least Concern | | w | | A | 69 |
| Coleoptera | Staphylinidae | Platystethus nitens | | none | Least Concern | | w | | A | 6,11 |
| Coleoptera | Staphylinidae | Platystethus nodifrons | | none | Least Concern | | w | | AB | 45 |
| Coleoptera | Staphylinidae | Proteinus ovalis | | none | Least Concern | | | | B | 10 |
| Coleoptera | Staphylinidae | Quedius cruentus | | none | Least Concern | | | decaying vegetation heaps and blossoms | B | 6,11 |
| Coleoptera | Staphylinidae | Quedius curtipennis | | none | Least Concern | | | | A | 4 |
| Coleoptera | Staphylinidae | Quedius fuliginosus | | none | Least Concern | | | | B | 9,11 |
| Coleoptera | Staphylinidae | Quedius fumatus | | none | Least Concern | YES | | | B | 46,11 |
| Coleoptera | Staphylinidae | Quedius lateralis | | none | Least Concern | | | | B | 10 |
| Coleoptera | Staphylinidae | Quedius levicollis | | none | Least Concern | | h | | AB | 67,11 |
| Coleoptera | Staphylinidae | Quedius maurorufus | | none | Least Concern | | w | | AB | 49,10,11 |
| Coleoptera | Staphylinidae | Quedius mesomelinus | | none | Least Concern | | | | B | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|--------------------------|------------|-----------------------------|-------------------|-------------------|--------------|-------------------------|------|------------|
| Coleoptera | Staphylinidae | Quedius molochinus | | none | Least Concern | | | | B | 11 |
| Coleoptera | Staphylinidae | Quedius persimilis | | none | Least Concern | | h | | B | 4 |
| Coleoptera | Staphylinidae | Quedius picipes | | none | Least Concern | | | | B | 6,11 |
| Coleoptera | Staphylinidae | Quedius scintillans | | none | Least Concern | | | decaying organic matter | B | 6 |
| Coleoptera | Staphylinidae | Quedius semiobscurus | | none | Least Concern | | g | | B | 5 |
| Coleoptera | Staphylinidae | Reichenbachia juncorum | | none | not yet evaluated | | w | | B | 10 |
| Coleoptera | Staphylinidae | Rugilus erichsonii | | none | Least Concern | | | | AB | 4,11 |
| Coleoptera | Staphylinidae | Rugilus orbiculatus | | none | Least Concern | | | | B | 6 |
| Coleoptera | Staphylinidae | Rugilus rufipes | | none | Least Concern | YES | | | AB | 4,11 |
| Coleoptera | Staphylinidae | Rybaxis longicornis | | none | not yet evaluated | | w | | B | 9,11 |
| Coleoptera | Staphylinidae | Sepedophilus littoreus | | none | Least Concern | | | | B | 10 |
| Coleoptera | Staphylinidae | Sepedophilus marshami | | none | Least Concern | | | | B | 6,11 |
| Coleoptera | Staphylinidae | Sepedophilus nigripennis | | none | Least Concern | | | | B | 7,10,11 |
| Coleoptera | Staphylinidae | Stenus aceris | | none | not yet evaluated | | g | | B | 10 |
| Coleoptera | Staphylinidae | Stenus bifoveolatus | | none | not yet evaluated | | w | | AB | 4,10,11 |
| Coleoptera | Staphylinidae | Stenus bimaculatus | | none | not yet evaluated | | w | | AB | 49,10,11 |
| Coleoptera | Staphylinidae | Stenus boops | | none | not yet evaluated | | w | | A | 469 |
| Coleoptera | Staphylinidae | Stenus brunnipes | | none | not yet evaluated | | | | AB | 11 |
| Coleoptera | Staphylinidae | Stenus butrintensis | | Nationally Scarce (Notable) | not yet evaluated | YES | w | | A | 46 |
| Coleoptera | Staphylinidae | Stenus carbonarius | | none | not yet evaluated | | w | | A | 4 |
| Coleoptera | Staphylinidae | Stenus cicindeloides | | none | not yet evaluated | | w | | AB | 469,10,11 |
| Coleoptera | Staphylinidae | Stenus flavipes | | none | not yet evaluated | | g | | B | 4,10,11 |
| Coleoptera | Staphylinidae | Stenus fulvicornis | | none | not yet evaluated | | g | | AB | 4,10,11 |
| Coleoptera | Staphylinidae | Stenus junco | | none | not yet evaluated | | w | | AB | 4569,10,11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------|---------------|--------------------------|------------|-------------------|-------------------|-------------------|--------------|----------------------------------|------|------------|
| Coleoptera | Staphylinidae | Stenus nitidiusculus | | none | not yet evaluated | | | | B | 49,10 |
| Coleoptera | Staphylinidae | Stenus ossium | | none | not yet evaluated | | g | | A | 4,11 |
| Coleoptera | Staphylinidae | Stenus pallipes | | none | not yet evaluated | | w | | A | 4,11 |
| Coleoptera | Staphylinidae | Stenus picipennis | | none | not yet evaluated | | w | | A | 4 |
| Coleoptera | Staphylinidae | Stenus picipes | | none | not yet evaluated | | | | B | 10,11 |
| Coleoptera | Staphylinidae | Stenus providus | | none | not yet evaluated | | | | B | 4,10,11 |
| Coleoptera | Staphylinidae | Stenus pusillus | | none | not yet evaluated | | w | | AB | 10,11 |
| Coleoptera | Staphylinidae | Stenus similis | | none | not yet evaluated | | g | | AB | 4,11 |
| Coleoptera | Staphylinidae | Stenus solutus | | none | not yet evaluated | | w | | AB | 46,10 |
| Coleoptera | Staphylinidae | Sunius propinquus | | none | Least Concern | | | | A | 11 |
| Coleoptera | Staphylinidae | Tachinus flavolimbatus | | Nationally Scarce | Least Concern | | | decaying vegetation heaps mainly | AB | 4,10 |
| Coleoptera | Staphylinidae | Tachinus laticollis | | none | Least Concern | | | often in dung | A | 4 |
| Coleoptera | Staphylinidae | Tachinus marginellus | | none | Least Concern | | | often in dung | B | 6,11 |
| Coleoptera | Staphylinidae | Tachinus rufipes | | none | Least Concern | | | | AB | 46,11 |
| Coleoptera | Staphylinidae | Tachyporus atriceps | | none | Least Concern | | | mosses | B | 11 |
| Coleoptera | Staphylinidae | Tachyporus chrysomelinus | | none | Least Concern | | | | B | 11 |
| Coleoptera | Staphylinidae | Tachyporus dispar | | none | Least Concern | | | | AB | 11 |
| Coleoptera | Staphylinidae | Tachyporus hypnorum | | none | Least Concern | YES | | | AB | 4567,10,11 |
| Coleoptera | Staphylinidae | Tachyporus nitidulus | | none | Least Concern | | | | AB | 4567,11 |
| Coleoptera | Staphylinidae | Tachyporus pallidus | | none | Least Concern | | w | | B | 11 |
| Coleoptera | Staphylinidae | Tachyporus pusillus | | none | Least Concern | | | | B | 567,11 |
| Coleoptera | Staphylinidae | Tachyporus tersus | | none | Least Concern | | | | B | 11 |
| Coleoptera | Staphylinidae | Tasgius ater | | none | Least Concern | | | | B | 7 |
| Coleoptera | Staphylinidae | Thinonoma atra | | none | not yet evaluated | | w | | AB | 9,11 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|----------------------|----------------------------------|----------------------------|-----------------------------|-------------------------------------|-------------------|-------------------|--------------|-------------|-----------|----------|
| Coleoptera | Staphylinidae | Tinotus (Aleochara) morion | now Aleochara | none | not yet evaluated | YES | | dung | A | 9 |
| Coleoptera | Staphylinidae | Xantholinus linearis | | none | Least Concern | | | | B | 6,11 |
| Coleoptera | Staphylinidae | Xantholinus longiventris | | none | Least Concern | | | | AB | 46 |
| Coleoptera | Tenebrionidae – Darkling Beetles | Cteniopus sulphureus | Sulphur Beetle | none | Least Concern | | h | | B | 67 |
| Coleoptera | Tenebrionidae | Isomira murina | | none | Least Concern | | h | | AB | 6 |
| Coleoptera | Tenebrionidae | Lagria hirta | | none | Least Concern | | | | AB | 79 |
| Coleoptera | Throscidae – Throscid Beetles | Aulonothroscus brevicollis | | [Nationally Rare (Red Data Book 3)] | not yet evaluated | YES | s | | A | 6 |
| Coleoptera | Throscidae | Trixagus obtusus | | none | not yet evaluated | | | | A | 69 |
| Cyclopoida | Cyclopidae | <i>Cyclops sp</i> | | | | | | | A(I)B(P2) | 4 |
| Dermoptera – EARWIGS | Forficulidae – Earwigs | Apterygida media | Short-winged Earwig | Nationally Scarce | Least Concern | YES | | | A | 8 |
| Dermoptera | Forficulidae | Forficula auricularia | Common Earwig | none | Least Concern | | | | AB | 45679,10 |
| Diptera – FLIES | Asilidae – Robberflies | Dioctria atricapilla | Violet Black-legged | none | Least Concern | | g | | A | 6 |
| Diptera | Asilidae | Dioctria rufipes | Common Red-legged Robberfly | none | Least Concern | | g | | A | 6 |
| Diptera | Asilidae | Leptogaster cylindrica | Striped Slender Robberfly | none | Least Concern | | g | | B | 7 |
| Diptera | Asilidae | Machimus atricapillus | Kite-tailed Robberfly | none | Least Concern | | | | AB | 9,10 |
| Diptera | Bibionidae – March Flies | Bibio anglicus | Downland Bibio | none | not yet evaluated | | | | AB | 4 |
| Diptera | Bibionidae | Bibio johannis | Johann's Bibio | none | not yet evaluated | | | | AB | 4 |
| Diptera | Bibionidae | Bibio marci | St Marks Fly | none | not yet evaluated | | | | AB | 4 |
| Diptera | Bibionidae | Dilophus febrilis | Common Fever Fly | none | not yet evaluated | | | | A | 9 |
| Diptera | Bombyliidae – Bee Flies | Bombylius major | Dark-edged Bee-fly | none | Least Concern | | | | AB | 4 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|------------------------------------|----------------------------|---------------------------------|-------------------|-------------------|-------------------|--------------|-------------|------|--------|
| Diptera | Conopidae – Thick-headed Flies | Myopa vicaria | Hairy-legged Spring Bee-grabber | none | not yet evaluated | | | | B | 4 |
| Diptera | Conopidae | Sicus ferrugineus | Ferruginous Bee-grabber | none | not yet evaluated | | | | A | 6 |
| Diptera | Dolichopodidae – Long-legged Flies | Dolichopus nubilus | | none | Least Concern | | w | | A | 9 |
| Diptera | Dolichopodidae | Dolichopus plumipes | | none | Least Concern | | w | | A | 6 |
| Diptera | Dolichopodidae | Dolichopus popularis | | none | Least Concern | | | | A | 6 |
| Diptera | Dolichopodidae | Dolichopus ungulatus | | none | Least Concern | | | | A | 6 |
| Diptera | Dolichopodidae | Hercostrusus plagiatius | | Nationally Scarce | Least Concern | | w | | B | 7 |
| Diptera | Dolichopodidae | Sciapus wiedemanni | | none | Least Concern | | | | B | 6 |
| Diptera | Empididae – Dagger Flies | Empis chioptera | | none | Least Concern | | | | AB | 4 |
| Diptera | Empididae | Empis livida | | none | Least Concern | | | | B | 6 |
| Diptera | Empididae | Empis nuntia | | none | Least Concern | | | | A | 4 |
| Diptera | Empididae | Empis trigramma | | none | Least Concern | | | | A | 4 |
| Diptera | Empididae | Rhamphomyia pilifer | | none | Least Concern | | | | A | 4 |
| Diptera | Empididae | Rhamphomyia subcinerascens | | none | Least Concern | | | | AB | 4 |
| Diptera | Empididae | Rhamphomyia tarsata | | none | Least Concern | | | | A | 46 |
| Diptera | Limoniidae – Limoniid Craneflies | Ellipteroides lateralis | Upturned Black Lamb | none | not yet evaluated | | w | | B | 67 |
| Diptera | Limoniidae | Epiphragma ocellare | Large Ocelot | none | not yet evaluated | | s | dead wood | B | 7 |
| Diptera | Limoniidae | Erioconopa trivialis | Common Striped Twist-tail | none | not yet evaluated | | | | A | 49 |
| Diptera | Limoniidae | Erioptera fuscipennis | Common Black Splay | none | not yet evaluated | | w | | B | 47 |
| Diptera | Limoniidae | Erioptera lutea | Dark-knobbed Splay | none | not yet evaluated | | w | | B | 4 |
| Diptera | Limoniidae | Helius flavus | Yellow Snout | none | not yet evaluated | | w | | B | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|-------------------------------------|--------------------------|----------------------------------|-------------------|-------------------|-------------------|--------------|-------------|------|--------|
| Diptera | Limoniidae | Limonia nubeculosa | Three-banded Limonia | none | not yet evaluated | | s | dead wood | A | 4 |
| Diptera | Limoniidae | Molophilus obscurus | Large-thumbed Dark Mol | none | not yet evaluated | | w | | B | 6 |
| Diptera | Limoniidae | Phylidorea ferruginea | Ringed Orange Longtail | none | not yet evaluated | | w | | AB | 46 |
| Diptera | Limoniidae | Phylidorea fulvonervosa | Striped Orange Longtail | none | not yet evaluated | | w | | B | 6 |
| Diptera | Limoniidae | Phylidorea squalens | Dull Bog Longtail | none | not yet evaluated | | w | | B | 9 |
| Diptera | Limoniidae | Pilaria discicollis | Yellow-shouldered Water-longtail | none | not yet evaluated | | w | | B | 7 |
| Diptera | Limoniidae | Pseudolimnophila lucorum | Grey Longneck | none | not yet evaluated | | w | | AB | 67 |
| Diptera | Limoniidae | Pseudolimnophila sepium | Brown Longneck | none | not yet evaluated | | w | | B | 6 |
| Diptera | Limoniidae | Symplecta stictica | Marsh Splay | none | not yet evaluated | | w | | A | 4 |
| Diptera | Muscidae – Muscid Flies | Mesembrina meridiana | Noon Fly | none | Least Concern | | | | A | 7 |
| Diptera | Opomyzidae – Opomyzid Flies | Opomyza florum | | none | not yet evaluated | | | | B | 7 |
| Diptera | Opomyzidae | Opomyza petrei | | none | not yet evaluated | | | | A | 9 |
| Diptera | Opomyzidae | Opomyza punctata | | Nationally Scarce | not yet evaluated | | | | A | 9 |
| Diptera | Pediciidae – Hairy-eyed Craneflies | Tricyphona immaculata | Single-striped Black Hairy-eye | none | not yet evaluated | | w | | AB | 4,10 |
| Diptera | Ptychopteridae – Phantom Craneflies | Ptychoptera albimana | Yellow-banded Weak-mark Foldwing | none | Least Concern | | w/s | | B | 4 |
| Diptera | Rhagionidae – Snipeflies | Chrysopilus cristatus | Black Snipefly | none | Least Concern | | g | | AB | 67 |
| Diptera | Rhagionidae | Rhagio scolopaceus | Downlooker Snipefly | none | Least Concern | | s | | A | 6 |
| Diptera | Scathophagidae – Dung Flies | Cordilura ciliata | Ciliate Cordilura | none | not yet evaluated | | w | | A | 6 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|------------------------------------|-----------------------------|--------------------------------|-------------------|-------------------|-------------------|--------------|-------------|------|--------|
| Diptera | Scathophagidae | Scathophaga furcata | Furcate Dung Fly | none | not yet evaluated | | | dung | B | 4 |
| Diptera | Scathophagidae | Scathophaga stercoraria | Yellow Dung Fly | none | not yet evaluated | | | dung | A | 4 |
| Diptera | Sciomyzidae – Snailkilling Flies | Elgiva sollicita | Brown S-veined Snailkiller | none | not yet evaluated | | w | | B | 4 |
| Diptera | Sciomyzidae | Ilione albiseta | Six-spotted Snailkiller | none | not yet evaluated | | w | | AB | 69 |
| Diptera | Sciomyzidae | Ilione lineata | White-banded Musselkiller | none | not yet evaluated | | w | | B | 6 |
| Diptera | Sciomyzidae | Pherbellia schoenherri | Spot-winged Little Snailkiller | none | not yet evaluated | | w | | AB | 4 |
| Diptera | Sciomyzidae | Pherbina coryleti | Net-winged Snailkiller | none | not yet evaluated | | w | | B | 6 |
| Diptera | Sciomyzidae | Sepedon sphegea | Blue Long-horned Snailkiller | none | not yet evaluated | | w | | B | 10 |
| Diptera | Sciomyzidae | Tetanocera ferruginea | Common Buff Snailkiller | none | not yet evaluated | | w | | AB | 67 |
| Diptera | Sepsidae – Ensign Flies | Sepsis fulgens | | none | not yet evaluated | | | | B | 7 |
| Diptera | Sphaeroceridae – Lesser Dung Flies | Crumomyia pedestris | | none | not yet evaluated | | | | B | 10 |
| Diptera | Stratiomyidae – Soldierflies | Beris chalybata | Murky-legged Black Legionnaire | none | Least Concern | | s | | A | 4 |
| Diptera | Stratiomyidae | Beris vallata | Common Orange Legionnaire | none | Least Concern | | s | | AB | 67 |
| Diptera | Stratiomyidae | Chloromyia formosa | Broad Centurion | none | Least Concern | | g | dung | AB | 67 |
| Diptera | Stratiomyidae | Microchrysa flavicornis | Green Gem | none | Least Concern | | | | B | 6 |
| Diptera | Stratiomyidae | Nemotelus pantherinus | Fen Snout | none | Least Concern | | w | | AB | 67 |
| Diptera | Stratiomyidae | Odontomyia argentata | Silver Colonel | Nationally Scarce | Least Concern | | w | | A | 4 |
| Diptera | Stratiomyidae | Oxycera nigricornis | Delicate Soldier | none | Least Concern | | w | | B | 6 |
| Diptera | Stratiomyidae | Oxycera rara | Four-barred Major | none | Least Concern | | w | | B | 6 |
| Diptera | Stratiomyidae | Pachygaster atra | Dark-winged Black | none | Least Concern | | s | | AB | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|------------------------|------------------------------------|-------------------------|--------|---------------|-------------------|--------------|---------------|------|--------|
| Diptera | Stratiomyidae | Sargus flavipes | Yellow-legged Centurion | none | Least Concern | | | dung etc | AB | 9,10 |
| Diptera | Stratiomyidae | Stratiomys potamida | Banded General | none | Least Concern | | w | | B | 7 |
| Diptera | Syrphidae – Hoverflies | Cheilosia fraterna | Orange-shinned Blacklet | none | Least Concern | | w | marsh thistle | A | 4 |
| Diptera | Syrphidae | Chrysotoxum bicinctum | Two-banded Spearhorn | none | Least Concern | | | | B | 7 |
| Diptera | Syrphidae | Dasysyrphus venustus sensu stricto | Broad-barred Fleckwing | none | Least Concern | | | | A | 6 |
| Diptera | Syrphidae | Epistrophe eligans | Early Epistrophe | none | Least Concern | | s | | AB | 4 |
| Diptera | Syrphidae | Episyrphus balteatus | Marmalade Hoverfly | none | Least Concern | | | | AB | 67 |
| Diptera | Syrphidae | Eristalis nemorum | Stripe-faced Dronefly | none | Least Concern | | | | B | 9 |
| Diptera | Syrphidae | Eristalis pertinax | Tapered Dronefly | none | Least Concern | | | | AB | 4,10 |
| Diptera | Syrphidae | Eristalis tenax | Common Dronefly | none | Least Concern | | | | AB | 7 |
| Diptera | Syrphidae | Eumerus strigatus | Lesser Bulb-Fly | none | Least Concern | | | | B | 57 |
| Diptera | Syrphidae | Helophilus pendulus | The Footballer | none | Least Concern | | w | | AB | 467,10 |
| Diptera | Syrphidae | Leucozona lucorum | Blotch-winged Hoverfly | none | Least Concern | | | | A | 6 |
| Diptera | Syrphidae | Melanogaster hirtella | Common Marsh Hoverfly | none | Least Concern | | w | | A | 6 |
| Diptera | Syrphidae | Melanostoma mellinum | Short Melanostoma | none | Least Concern | | | | AB | 467 |
| Diptera | Syrphidae | Neoascia tenur | Bridged Clubtail | none | Least Concern | | w | | B | 4 |
| Diptera | Syrphidae | Pipizella viduata | | none | Least Concern | | | | B | 7 |
| Diptera | Syrphidae | Platycheirus albimanus | Grey-spotted Boxer | none | Least Concern | | | | A | 49 |
| Diptera | Syrphidae | Platycheirus angustatus | Slender Boxer | none | Least Concern | | | | A | 7 |
| Diptera | Syrphidae | Platycheirus clypeatus | Marsh Boxer | none | Least Concern | | w | | A | 47 |
| Diptera | Syrphidae | Platycheirus fulviventris | Orange-legged Boxer | none | Least Concern | | w | | A | 9 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|---------|------------------------------------|--|---------------------------|-------------------|-------------------|-------------------|--------------|------------------|------|--------|
| Diptera | Syrphidae | Platycheirus occultus | Dusky Marsh Boxer | none | Least Concern | | w | | A | 67 |
| Diptera | Syrphidae | Sphaerophoria scripta | Common Twist-tail | none | Least Concern | | g | | B | 479 |
| Diptera | Syrphidae | Syritta pipiens | Thick-legged Hoverfly | none | Least Concern | | g | | B | 7 |
| Diptera | Syrphidae | Syrphus ribesii | Humming Syrphus | none | Least Concern | | | | AB | 46 |
| Diptera | Syrphidae | Tropidia scita | Tooth-thighed Hoverfly | none | Least Concern | | w | | A | 6 |
| Diptera | Syrphidae | Volucella pellucens | Pied Plumehorn | none | Least Concern | | | | A | 7 |
| Diptera | Syrphidae | Xanthogramma pedissequum sensu stricto | Superb Ant-hill Hoverfly | none | Least Concern | | | | A | 6 |
| Diptera | Syrphidae | Xylota segnis | Orange-belted Leaf Licker | none | Least Concern | | s | dead wood | A | 67 |
| Diptera | Tabanidae – Horseflies, Clegs etc | Chrysops caecutiens | Splayed Deerfly | none | Least Concern | | | mammals | A | 6 |
| Diptera | Tabanidae | Chrysops relictus | Twin-lobed Deerfly | none | Least Concern | | | mammals | A | 6 |
| Diptera | Tabanidae | Haematopota pluvialis | Notch-horned Cleg | none | Least Concern | | | mammals | AB | 67 |
| Diptera | Tabanidae | Tabanus maculicornis | Narrow-winged Horsefly | Nationally Scarce | Least Concern | | w | | A | 6 |
| Diptera | Tachinidae – Tachinid Flies | Gymnocheta viridis | | none | not yet evaluated | | s | | A | 4 |
| Diptera | Tachinidae | Tachina fera | | none | not yet evaluated | | | | B | 9 |
| Diptera | Tephritidae – Picture-winged Flies | Anomoia purmunda | | none | not yet evaluated | | s | hawthorn | A | 7 |
| Diptera | Tephritidae | Urophora cardui | | none | not yet evaluated | | g | creeping thistle | AB | 79 |
| Diptera | Tephritidae | Urophora stylata | | none | not yet evaluated | | g | spear thistle | B | 6 |
| Diptera | Therevidae | Thereva bipunctata | Twin-spot Stiletto | none | not yet evaluated | | h | | B | 67 |
| Diptera | Tipulidae | Nephrotoma analis | Dark-tipped Tiger | none | not yet evaluated | | w | | B | 7 |
| Diptera | Tipulidae | Nephrotoma appendiculata | Inverted-U Tiger | none | not yet evaluated | | g | | A | 4 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|------------------------------------|----------------|-----------------------------|------------------------------|--------|-------------------|-------------------|--------------|-------------|--------------|--------|
| Diptera | Tipulidae | Nephrotoma flavescens | Primrose Tiger | none | not yet evaluated | | g | | AB | 7 |
| Diptera | Tipulidae | Nephrotoma quadrifaria | Wing-band Tiger | none | not yet evaluated | | s | | B | 7 |
| Diptera | Tipulidae | Nigrotipula nigra | Chocolate Long-palp | none | not yet evaluated | | w | | A | 7 |
| Diptera | Tipulidae | Tipula cava | White-blistered Long-palp | none | not yet evaluated | | h | | B | 7 |
| Diptera | Tipulidae | Tipula fascipennis | White-barred Long-palp | none | not yet evaluated | | s | | B | 7 |
| Diptera | Tipulidae | Tipula lateralis | Common Yam | none | not yet evaluated | | w | | B | 67 |
| Diptera | Tipulidae | Tipula luna | Golden-tufted Grey Long-palp | none | not yet evaluated | | w | | B | 46 |
| Diptera | Tipulidae | Tipula lunata | Tabbed Orange Long-palp | none | not yet evaluated | | | | B | 7 |
| Diptera | Tipulidae | Tipula luteipennis | Yellow-winged Long-palp | none | not yet evaluated | | w | | B | 9 |
| Diptera | Tipulidae | Tipula maxima | Giant Long-palp | none | not yet evaluated | | w | | B | 46 |
| Diptera | Tipulidae | Tipula oleracea | Marsh White-stripe | none | not yet evaluated | | | | AB | 47 |
| Diptera | Tipulidae | Tipula paludosa | Meadow White-stripe | none | not yet evaluated | | w | | AB | 9 |
| Diptera | Tipulidae | Tipula scripta | Common Saw-tailed Mottle | none | not yet evaluated | | s | | B | 7 |
| Diptera | Tipulidae | Tipula unca | Double-U Long-palp | none | not yet evaluated | | w/s | | B | 6 |
| Diptera | Tipulidae | Tipula vittata | Twin-striped Grey Long-palp | none | not yet evaluated | | w/s | | AB | 4 |
| Diptera | <i>unknown</i> | <i>Diptera larvae</i> | | | | | <i>a</i> | | A(I)B(P1,P2) | 4 |
| Ephemeroptera – MAYFLIES | Baetidae | <i>Baetidae nymph</i> | | | | | <i>a</i> | | A(I,D1)B(P2) | 4 |
| Ephemeroptera | Ephemeridae | Ephemera danica | Green Drake | none | | | w/a | | AB | 67 |
| Ephemeroptera | <i>unknown</i> | <i>Ephemeroptera nymphs</i> | | | | | <i>a</i> | | B(P1) | 4 |
| Geophilomorpha – CENTIPEDES (part) | Geophilidae | Geophilus easoni | | none | | | | | B | 7 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|-----------------------|--------------------------------------|-----------------------------|--------------------------|--------|-------------------|-------------------|--------------|-------------|------|----------|
| Hemiptera – TRUE BUGS | Acanthosomatidae – Shieldbugs (part) | Acanthosoma haemorrhoidale | Hawthorn Shieldbug | none | Least Concern | | s | hawthorn | AB | 9 |
| Hemiptera | Anthocoridae – Flower Bugs | Anthocoris confusus | | none | not yet evaluated | | s | | B | 7 |
| Hemiptera | Anthocoridae | Anthocoris nemoralis | | none | not yet evaluated | | s | | AB | 46 |
| Hemiptera | Anthocoridae | Anthocoris nemorum | Common Flower Bug | none | not yet evaluated | | | | AB | 46,79,10 |
| Hemiptera | Anthocoridae | Anthocoris simulans | | none | not yet evaluated | | s | ash | A | 7 |
| Hemiptera | Anthocoridae | Cardiastethus fasciiventris | | none | not yet evaluated | | s | | AB | 4 |
| Hemiptera | Anthocoridae | Temnostethus gracilis | | none | not yet evaluated | | s | | AB | 47 |
| Hemiptera | Anthocoridae | Temnostethus pusillus | | none | not yet evaluated | | s | | AB | 6,10 |
| Hemiptera | Aphrophoridae – Froghoppers | Aphrophora alni | | none | not yet evaluated | | s | | A | 7 |
| Hemiptera | Aphrophoridae | Aphrophora salicina | | none | not yet evaluated | | s | willows | B | 7 |
| Hemiptera | Aphrophoridae | Neophilaenus lineatus | | none | not yet evaluated | | g | | B | 7 |
| Hemiptera | Aphrophoridae | Philaenus spumarius | Common Froghopper | none | not yet evaluated | | g | | AB | 79,10 |
| Hemiptera | Aradidae – Flatbugs | Aneurus avenius | | none | not yet evaluated | | s | dead wood | A | 46 |
| Hemiptera | Berytidae – Stiltbugs | Neides tipularius | | none | not yet evaluated | | h | | B | 6 |
| Hemiptera | Cercopidae – Cercopid Froghoppers | Cercopis vulnerata | Red-and-black Froghopper | none | not yet evaluated | | g | | A | 6 |
| Hemiptera | Cicadellidae – Leafhoppers | Allygus mixtus | | none | not yet evaluated | | s | | AB | 79 |
| Hemiptera | Cicadellidae | Anoscopus albifrons | | none | not yet evaluated | | g | | B | 7 |
| Hemiptera | Cicadellidae | Anoscopus histrionicus | | none | not yet evaluated | | g | | B | 6 |
| Hemiptera | Cicadellidae | Aphrodes makarovi | | none | not yet evaluated | | g | | A | 7 |
| Hemiptera | Cicadellidae | Cicadella viridis | | none | not yet evaluated | | w | | AB | 79,10 |

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|-----------|--------------|---------------------------|------------|-------------------------------|-------------------|-------------------|--------------|-------------------|------|--------|
| Hemiptera | Cicadellidae | Cicadula persimilis | | none | not yet evaluated | | g | | A | 6 |
| Hemiptera | Cicadellidae | Cicadula quadrinotata | | none | not yet evaluated | | w | rushes, sedges | B | 67 |
| Hemiptera | Cicadellidae | Errastunus ocellaris | | none | not yet evaluated | | g | | A | 6 |
| Hemiptera | Cicadellidae | Erzaleus metrius | | none | not yet evaluated | | w | reed canary grass | A | 7 |
| Hemiptera | Cicadellidae | Eupteryx aurata | | none | not yet evaluated | | | stinging nettle | A | 6 |
| Hemiptera | Cicadellidae | Eupteryx urticae | | none | not yet evaluated | | | stinging nettle | A | 6 |
| Hemiptera | Cicadellidae | Euscelis incisus | | none | not yet evaluated | | g | | AB | 47 |
| Hemiptera | Cicadellidae | Evacanthus acuminatus | | none | not yet evaluated | | | | A | 7 |
| Hemiptera | Cicadellidae | Fagocyba carri | | none | not yet evaluated | | s | oak | B | 10 |
| Hemiptera | Cicadellidae | Iassus lanio | | none | not yet evaluated | | s | oak | B | 7,10 |
| Hemiptera | Cicadellidae | Idiocerus stigmatalis | | none | not yet evaluated | | s | willows | B | 7 |
| Hemiptera | Cicadellidae | Kybos smaragdula | | none | not yet evaluated | | | alder mainly | A | 6 |
| Hemiptera | Cicadellidae | Macropsis prasina | | none | not yet evaluated | | | sallows | A | 7 |
| Hemiptera | Cicadellidae | Macropsis scotti | | none | not yet evaluated | | | bramble | A | 7 |
| Hemiptera | Cicadellidae | Macrosteles sardus | | none | not yet evaluated | YES | | | A | 6 |
| Hemiptera | Cicadellidae | Macrosteles viridigriseus | | none | not yet evaluated | | w | | AB | 6 |
| Hemiptera | Cicadellidae | Macustus grisescens | | none | not yet evaluated | | g | | A | 6 |
| Hemiptera | Cicadellidae | Metidiocerus rutilans | | none | not yet evaluated | | | sallows | AB | 4 |
| Hemiptera | Cicadellidae | Oncopsis alni | | none | not yet evaluated | | s | alders | A | 6 |
| Hemiptera | Cicadellidae | Ophiola decumana | | Nationally Scarce (Notable B) | not yet evaluated | | h | | B | 6 |
| Hemiptera | Cicadellidae | Populicerus albicans | | none | not yet evaluated | | | poplars | B | 7 |
| Hemiptera | Cicadellidae | Psammotettix confinis | | none | not yet evaluated | | g | grasses | AB | 67,10 |
| Hemiptera | Cicadellidae | Rhopalopyx elongata | | none | not yet evaluated | | | | B | 10 |
| Hemiptera | Cicadellidae | Streptanus sordidus | | none | not yet evaluated | | g | | A | 6 |

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|-----------|----------------------------|--------------------------|-------------------------|-------------------------------|-------------------|-------------------|--------------|------------------------------------|-------|---------|
| Hemiptera | Cicadellidae | Tremulicerus fulgidus | | Nationally Scarce (Notable A) | not yet evaluated | | | poplars | B | 7 |
| Hemiptera | Cixiidae – Lacehoppers | Cixius nervosus | | none | not yet evaluated | | s | | B | 7 |
| Hemiptera | Coreidae – Leatherbugs | Arenocoris falleni | Fallen’s Leatherbug | Nationally Scarce | Least Concern | | h | common stork’s-bill | B | 67 |
| Hemiptera | Coreidae | Coreus marginatus | Dock Bug | none | Least Concern | | | docks | AB | 4679,10 |
| Hemiptera | Coreidae | Coriomeris denticulatus | Denticulate Leatherbug | none | Least Concern | | h | Leguminosae including black medick | B | 7 |
| Hemiptera | Coreidae | Gonocerus acuteangulatus | Box Bug | none | Least Concern | | s | | B | 7 |
| Hemiptera | Coreidae | Spathocera dalmanii | Dalman's Leatherbug | Nationally Scarce | Least Concern | | h | sheep’s sorrel | B | 6 |
| Hemiptera | Coreidae | Syromastus rhombeus | Rhombic Leatherbug | none | Least Concern | | h | Caryophyllaceae | B | 7 |
| Hemiptera | Corixidae – Waterboatmen | Corixa punctata | Common Water Boatman | none | Least Concern | | a | | A(D1) | 4 |
| Hemiptera | Corixidae | Hesperocorixa linnaei | | none | Least Concern | | a | | B(P1) | 4 |
| Hemiptera | Corixidae | Hesperocorixa sahlbergi | | none | Least Concern | | a | | A | 7 |
| Hemiptera | Corixidae | Paracorixa concinna | | none | Least Concern | | a | | B | 7 |
| Hemiptera | Corixidae | Sigara iactans | | none | Least Concern | | a | | B | 7 |
| Hemiptera | Corixidae | Sigara lateralis | | none | Least Concern | | a | | AB | 7 |
| Hemiptera | Cydnidae | Legnotus limbosus | Bordered Shieldbug | none | Least Concern | | g | Galium sp | A | 4 |
| Hemiptera | Cydnidae | Sehirus luctuosus | Forget-me-not Shieldbug | none | Least Concern | | g | Forget-me-not | B | 7 |
| Hemiptera | Cydnidae | Tritomegas bicolor | Pied Shieldbug | none | Least Concern | | g | white deadnettle | A | 47 |
| Hemiptera | Delphacidae – Planthoppers | Conomelus anceps | | none | not yet evaluated | | w | Juncus | B | 57 |
| Hemiptera | Delphacidae | Florodelphax leptosoma | | none | not yet evaluated | | w | | B | 45,10 |
| Hemiptera | Delphacidae | Javesella obscurella | | none | not yet evaluated | YES | w | | A | 6 |

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|-----------|------------------------|---------------------------|-------------------|-------------------------------------|-------------------|-------------------|--------------|----------------------|-------|---------|
| Hemiptera | Delphacidae | Megamelodes lequesnei | | Nationally Scarce (Notable B) | not yet evaluated | YES | w | | B | 10 |
| Hemiptera | Delphacidae | Paraliburnia adela | | none | not yet evaluated | | w | Glyceria | A | 6 |
| Hemiptera | Delphacidae | Stenocranus fuscovittatus | | Nationally Scarce (Notable B) | not yet evaluated | YES | w | sedges and grasses | A | 4 |
| Hemiptera | Delphacidae | Stenocranus major | | none | not yet evaluated | | g | | A | 47 |
| Hemiptera | Gerridae – Pondskaters | Gerris lateralis | | none | Least Concern | | a | | A(D1) | 4 |
| Hemiptera | Lygaeidae – Groundbugs | Cymus clavicolus | | none | not yet evaluated | | h | toad rush, knotgrass | B | 7 |
| Hemiptera | Lygaeidae | Cymus melanocephalus | | none | not yet evaluated | | w | | AB | 6 |
| Hemiptera | Lygaeidae | Drymus sylvaticus | | none | not yet evaluated | | | | A | 4 |
| Hemiptera | Lygaeidae | Heterogaster urticae | Nettle Groundbug | none | not yet evaluated | | | stinging nettle | A | 4 |
| Hemiptera | Lygaeidae | Ischnodemus sabuleti | European Cinchbug | none | not yet evaluated | | g/w | grasses and reeds | AB | 4679,11 |
| Hemiptera | Lygaeidae | Kleidocerys resedae | Birch Catkin Bug | none | not yet evaluated | | s | birches mainly | AB | 46,10 |
| Hemiptera | Lygaeidae | Megalonotus antennatus | | Nationally Scarce (Notable B) | not yet evaluated | | g | | A | 6 |
| Hemiptera | Lygaeidae | Megalonotus chiragra | | none | not yet evaluated | | h | | B | 6 |
| Hemiptera | Lygaeidae | Megalonotus praetextatus | | Nationally Scarce (Notable B) | not yet evaluated | | h | | B | 7 |
| Hemiptera | Lygaeidae | Megalonotus sabulicola | | Nationally Scarce (Notable B) | not yet evaluated | | h | | B | 7,10 |
| Hemiptera | Lygaeidae | Nysius graminicola | | [Nationally Rare (Red Data Book 3)] | not yet evaluated | YES | h | | B | 9 |
| Hemiptera | Lygaeidae | Nysius huttoni | | none | not yet evaluated | | h | | B | 679 |
| Hemiptera | Lygaeidae | Nysius senecionis | | none | not yet evaluated | | g | ragworts etc | B | 9 |

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|-----------|-------------------------------------|----------------------------|--------------------|-------------------------------|-------------------|-------------------|--------------|-------------------------|------|--------|
| Hemiptera | Lygaeidae | Scolopostethus grandis | | none | not yet evaluated | | | | A | 11 |
| Hemiptera | Lygaeidae | Scolopostethus thomsoni | | none | not yet evaluated | | | | AB | 9 |
| Hemiptera | Lygaeidae | Stygnocoris fuliginus | | none | not yet evaluated | | g | | B | 4 |
| Hemiptera | Lygaeidae | Trapezonotus arenarius | | none | not yet evaluated | | h | | B | 679 |
| Hemiptera | Lygaeidae | Trapezonotus desertus | | none | not yet evaluated | | h | | B | 5 |
| Hemiptera | Microphysidae – Minute Bladder Bugs | Loricula elegantula | | none | not yet evaluated | | s | lichens on trees | AB | 67 |
| Hemiptera | Microphysidae | Loricula pselaphiformis | | none | not yet evaluated | | s | lichens | A | 6 |
| Hemiptera | Miridae – Plant Bugs or Capsid Bugs | Amblytylus nasutus | | none | not yet evaluated | | g | | B | 67 |
| Hemiptera | Miridae | Atractotomus mali | | none | not yet evaluated | | s | hawthorn, apple | AB | 67 |
| Hemiptera | Miridae | Blepharidopterus angulatus | Black-kneed Capsid | none | not yet evaluated | | s | birch, alder etc | A | 7 |
| Hemiptera | Miridae | Campyloneura virgula | | none | not yet evaluated | | s | | AB | 7 |
| Hemiptera | Miridae | Capsus ater | | none | not yet evaluated | | g | | AB | 67 |
| Hemiptera | Miridae | Capsus wagneri | | Nationally Scarce (Notable B) | not yet evaluated | YES | w | | A | 6 |
| Hemiptera | Miridae | Closterotomus norwegicus | | none | not yet evaluated | | g | | AB | 67 |
| Hemiptera | Miridae | Cyllecoris histrionius | | none | not yet evaluated | | s | oaks | B | 6 |
| Hemiptera | Miridae | Deraeocoris flavilinea | | none | not yet evaluated | | s | | AB | 6 |
| Hemiptera | Miridae | Deraeocoris lutescens | | none | not yet evaluated | | s | oaks mainly | AB | 479,10 |
| Hemiptera | Miridae | Deraeocoris ruber | | none | not yet evaluated | | | | AB | 7 |
| Hemiptera | Miridae | Dicyphus epilobii | | none | not yet evaluated | | g/w | hairy willowherb | AB | 69 |
| Hemiptera | Miridae | Halticus luteicollis | | none | not yet evaluated | | | bedstraws, white bryony | B | 7 |

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|-----------|---------|--------------------------|---------------------|--------|-------------------|-------------------|--------------|------------------|------|---------|
| Hemiptera | Miridae | Heterocordylus tibialis | | none | not yet evaluated | | h | broom | B | 6 |
| Hemiptera | Miridae | Heterotoma planicornis | | none | not yet evaluated | | | | AB | 67 |
| Hemiptera | Miridae | Leptopterna dolabrata | Meadow Plant Bug | none | not yet evaluated | | g | Poaceae | AB | 67 |
| Hemiptera | Miridae | Liocoris tripustulatus | | none | not yet evaluated | | | stinging nettle | AB | 4679,10 |
| Hemiptera | Miridae | Lygocoris pabulinus | Common Green Capsid | none | not yet evaluated | | | | AB | 67 |
| Hemiptera | Miridae | Lygocoris rugicollis | | none | not yet evaluated | | | willows | A | 6 |
| Hemiptera | Miridae | Lygus rugulipennis | Tarnished Plant Bug | none | not yet evaluated | | | | A | 4 |
| Hemiptera | Miridae | Macrotylus horvathi | | none | not yet evaluated | | | black horehound | B | 7 |
| Hemiptera | Miridae | Megaloceroea recticornis | | none | not yet evaluated | | g | Poaceae | B | 7 |
| Hemiptera | Miridae | Megalocoleus molliculus | | none | not yet evaluated | | g | yarrow | B | 7 |
| Hemiptera | Miridae | Miris striatus | | none | not yet evaluated | | s | hawthorn | AB | 4 |
| Hemiptera | Miridae | Neolygus contaminatus | | none | not yet evaluated | | s | birch | A | 6 |
| Hemiptera | Miridae | Notostira elongata | | none | not yet evaluated | | g | Poaceae | A | 67 |
| Hemiptera | Miridae | Oncotylus viridiflavus | | none | not yet evaluated | | g | knapweeds | B | 7 |
| Hemiptera | Miridae | Orthonotus rufifrons | | none | not yet evaluated | | s | stinging nettle | B | 7 |
| Hemiptera | Miridae | Orthops campestris | | none | not yet evaluated | | | umbellifers | B | 7 |
| Hemiptera | Miridae | Orthotylus concolor | | none | not yet evaluated | | h | gorse | B | 6 |
| Hemiptera | Miridae | Orthotylus marginalis | | none | not yet evaluated | | s | willows | AB | 6 |
| Hemiptera | Miridae | Orthotylus tenellus | | none | not yet evaluated | | s | oaks, ash, hazel | B | 6 |
| Hemiptera | Miridae | Phylus melanocephalus | | none | not yet evaluated | | s | oak | B | 6 |
| Hemiptera | Miridae | Phytocoris longipennis | | none | not yet evaluated | | s | | A | 7 |
| Hemiptera | Miridae | Phytocoris ulmi | | none | not yet evaluated | | s | | A | 7 |
| Hemiptera | Miridae | Pilophorus perplexus | | none | not yet evaluated | | s | oak | B | 7 |
| Hemiptera | Miridae | Pinalitus cervinus | | none | not yet evaluated | | s | hazel, ash, ivy | AB | 67,10 |
| Hemiptera | Miridae | Pithanus maerkelii | | none | not yet evaluated | | g | | A | 6 |

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|-----------|---------------------------|----------------------------|-------------------|--------|-------------------|-------------------|--------------|------------------------------|----------------------|-----------|
| Hemiptera | Miridae | Plagiognathus arbustorum | | none | not yet evaluated | | | often stinging nettles | AB | 67 |
| Hemiptera | Miridae | Plagiognathus chrysanthemi | | none | not yet evaluated | | g | | B | 7 |
| Hemiptera | Miridae | Polymerus nigrita | | none | not yet evaluated | | | Galium sp | B | 7 |
| Hemiptera | Miridae | Psallus ambiguus | | none | not yet evaluated | | s | alder, hawthorn, willows etc | A | 6 |
| Hemiptera | Miridae | Psallus lepidus | | none | not yet evaluated | | s | ash | A | 7 |
| Hemiptera | Miridae | Psallus perrisi | | none | not yet evaluated | | s | oak | AB | 6 |
| Hemiptera | Miridae | Psallus varians | | none | not yet evaluated | | s | oak | AB | 6 |
| Hemiptera | Miridae | Psallus wagneri | | none | not yet evaluated | | s | oak | AB | 6 |
| Hemiptera | Miridae | Rhabdomiris striatellus | | none | not yet evaluated | | s | oak | B | 46 |
| Hemiptera | Miridae | Salicarus roseri | | none | not yet evaluated | | w | willows | A | 7 |
| Hemiptera | Miridae | Stenodema calcarata | | none | not yet evaluated | | | Poaceae | AB | 46 |
| Hemiptera | Miridae | Stenodema laevigata | | none | not yet evaluated | | | Poaceae | AB | 49 |
| Hemiptera | Miridae | Stenotus binotatus | | none | not yet evaluated | | g | Poaceae | AB | 67 |
| Hemiptera | Miridae | Teratocoris antennatus | | none | not yet evaluated | | w | Club-rushes | AB | 67 |
| Hemiptera | Nabidae – Damselbugs | Himacerus apterus | Tree Damsel Bug | none | not yet evaluated | | s | | A | 89 |
| Hemiptera | Nabidae | Himacerus major | | none | not yet evaluated | | g | | A | 9 |
| Hemiptera | Nabidae | Himacerus mirmicoides | Ant Damsel Bug | none | not yet evaluated | | g | | B | 10 |
| Hemiptera | Nabidae | Nabis ferus | Field Damsel Bug | none | not yet evaluated | | | | B | 49,10 |
| Hemiptera | Nabidae | Nabis limbatus | Marsh Damsel Bug | none | not yet evaluated | | g/w | | B | 7 |
| Hemiptera | Nabidae | Nabis rugosus | Common Damsel Bug | none | not yet evaluated | | | | AB | 469,10,11 |
| Hemiptera | Nepidae – Water Scorpions | Nepa cinerea | Water Scorpion | none | Least Concern | | a | | A(D2) B(P1,ditch) | 4579 |
| Hemiptera | Notonectidae – | Notonecta glauca | Common | none | Least Concern | | a | | A(D1) | 4 |

| Order | Family | Taxon | Vernacular | Status | IUCN Status | Voucher Retained? | Habitat Code | Association | Site | Months |
|-----------|-------------------------------------|--------------------------------|---------------------------|-------------------|-------------------|-------------------|--------------|---------------------|----------------|--------|
| | Backswimmers | | Backswimmer | | | | | | | |
| Hemiptera | Pentatomidae – Shieldbugs (part) | <i>Aelia acuminata</i> | Bishop's Mitre | none | Least Concern | | g | Poaceae | A | 679 |
| Hemiptera | Pentatomidae | <i>Dolycoris baccarum</i> | Hairy Shieldbug | none | Least Concern | | | | B | 9 |
| Hemiptera | Pentatomidae | <i>Eurydema oleracea</i> | Crucifer Shieldbug | none | Least Concern | | | Brassicaceae | A | 6 |
| Hemiptera | Pentatomidae | <i>Palomena prasina</i> | Green Shieldbug | none | Least Concern | | | | AB | 479,10 |
| Hemiptera | Pentatomidae | <i>Pentatoma rufipes</i> | Red-legged Shieldbug | none | Least Concern | | s | | AB | 7 |
| Hemiptera | Pentatomidae | <i>Picromerus bidens</i> | Spiked Shieldbug | none | Least Concern | | w | | B | 9 |
| Hemiptera | Pentatomidae | <i>Podops inunctus</i> | Turtle Shieldbug | none | Least Concern | | g | | A | 6,11 |
| Hemiptera | Pentatomidae | <i>Troilus luridus</i> | Bronze Shieldbug | none | Least Concern | | s | | A | 9 |
| Hemiptera | Pentatomidae | <i>Zicrona caerulea</i> | Blue Shieldbug | none | Least Concern | | w | | A | 4 |
| Hemiptera | Pleidae – Pygmy Backswimmers | <i>Plea minutissima</i> | | none | Least Concern | | a | | A(D1) B(P1) | 4 |
| Hemiptera | Rhopalidae – Rhopalid Bugs | <i>Corizus hyoscyami</i> | | none | Least Concern | | g | | B | 9 |
| Hemiptera | Rhopalidae | <i>Rhopalus parumpunctatus</i> | | Nationally Scarce | Least Concern | | g | | B | 7 |
| Hemiptera | Rhopalidae | <i>Stictopleurus abutilon</i> | | none | Least Concern | | g | | B | 79 |
| Hemiptera | Saldidae – Shorebugs | <i>Chartoscirta cincta</i> | | none | Least Concern | | w | | A | 46,11 |
| Hemiptera | Saldidae | <i>Saldula saltatoria</i> | Common Shore Bug | none | Least Concern | | w | | AB | 456 |
| Hemiptera | Scutelleridae – Tortoise Shieldbugs | <i>Eurygaster testudinaria</i> | Tortoise Shieldbug | none | Least Concern | | g | | AB | 679,10 |
| Hemiptera | Scutelleridae | <i>Odontoscelis lineola</i> | Lesser-streaked Shieldbug | Nationally Scarce | Least Concern | | h | common stork's-bill | B | 56 |
| Hemiptera | Tingidae – Lacebugs | <i>Acalypta parvula</i> | | none | not yet evaluated | | | lichens | B | 56 |
| Hemiptera | Tingidae | <i>Agramma laetum</i> | | none | not yet evaluated | | | rushes, sedges | B | 4 |
| Hemiptera | Tingidae | <i>Dictyla convergens</i> | | none | not yet evaluated | | w | water forget-me-not | B | 6 |

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|---|--|-------------------------------------|--------------------------|-----------------------------------|-------------------|-------------------|--------------|------------------------|-------|--------|
| Hemiptera | Tingidae | Kalama tricornis | | none | not yet evaluated | | h | | B | 6 |
| Hemiptera | <i>Tingidae</i> | <i>Physatocheila dumetorum</i> agg. | | | | | s | | AB | 49 |
| Hemiptera | Tingidae | Tingis ampliata | | none | not yet evaluated | | | thistles | AB | 46 |
| Hemiptera | Veliidae – Water Crickets | Velia caprai | | none | Least Concern | | a | | A(D2) | 4 |
| Hymenoptera – BEES, WASPS, ANTS, SAWFLIES | Andrenidae – Mining Bees | Andrena dorsata | Short-fringed Mining Bee | none | not yet evaluated | | | | A | 4 |
| Hymenoptera | Andrenidae | Andrena fulva | Tawny Mining Bee | none | not yet evaluated | | | | B | 4 |
| Hymenoptera | Andrenidae | Andrena scotica | Chocolate Mining Bee | none | not yet evaluated | | | | B | 4 |
| Hymenoptera | Apidae – Honey Bees, Bumblebees and allies | Apis mellifera | Western Honey Bee | none | not yet evaluated | | | | AB | 4679 |
| Hymenoptera | Apidae | Bombus hypnorum | Tree Bumblebee | none | not yet evaluated | | | | AB | 67,10 |
| Hymenoptera | Apidae | Bombus lapidarius | Red-tailed Bumblebee | none | not yet evaluated | | | | AB | 4679 |
| Hymenoptera | Apidae | Bombus pascuorum | Common Carder Bee | none | not yet evaluated | | | | AB | 4679 |
| Hymenoptera | Apidae | Bombus pratorum | Early Bumblebee | none | not yet evaluated | | | | B | 7 |
| Hymenoptera | Apidae | Bombus terrestris | Buff-tailed Bumblebee | none | not yet evaluated | | | | AB | 479 |
| Hymenoptera | Apidae | Nomada panzeri | Panzer's Nomad Bee | none | not yet evaluated | | | | B | 4 |
| Hymenoptera | Cephidae – Stem-boring Sawflies | Cephus pygmeus | Wheat Stem Borer | none | not yet evaluated | | g | grasses and buttercups | AB | 6 |
| Hymenoptera | Chrysididae – Cuckoo Wasps/Ruby-tailed Wasps | Hedychridium roseum | | none | not yet evaluated | | h | | B | 7 |
| Hymenoptera | Chrysididae | Hedychrum niemelai | | Nationally Rare (Red Data Book 3) | not yet evaluated | | h | | B | 7 |
| Hymenoptera | Chrysididae | Pseudomalus auratus | | none | not yet evaluated | | | | B | 7 |

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| Hymenoptera | Colletidae – Plasterer Bees etc | Colletes hederace | Ivy Bee | none | not yet evaluated | | s | ivy | AB | 9,10 |
| Hymenoptera | Crabronidae – Digger Wasps | Cerceris quinquefasciata | Five-banded Weevil Fox | Nationally Rare (Red Data Book 3), s.41 NERC | not yet evaluated | | h | | B | 7 |
| Hymenoptera | Crabronidae | Crabro cribrarius | Large Shield Wasp | none | not yet evaluated | | h | | B | 7 |
| Hymenoptera | Crabronidae | Entomognathus brevis | | none | not yet evaluated | | h | | B | 7 |
| Hymenoptera | Formicidae – Ants | Formica fusca | Dusky Ant | none | not yet evaluated | | | | B | 4 |
| Hymenoptera | Formicidae | Formica lemani | | none | not yet evaluated | | | | A | 6 |
| Hymenoptera | Formicidae | Lasius brunneus | Brown Tree Ant | Nationally Scarce (Notable A) | not yet evaluated | | s | | AB | 46 |
| Hymenoptera | Formicidae | Lasius flavus | Yellow Meadow Ant | none | not yet evaluated | | g | | B | 7 |
| Hymenoptera | Formicidae | Lasius fuliginosus | Jet Ant | none | not yet evaluated | | s | | B | 10 |
| Hymenoptera | Formicidae | Lasius niger sens. lat. | | | | | | | AB | 4567 |
| Hymenoptera | Formicidae | Myrmica ruginodis | | none | not yet evaluated | | | | B | 57 |
| Hymenoptera | Formicidae | Temnothorax nylanderi | | none | not yet evaluated | | s | | AB | 6 |
| Hymenoptera | Halictidae – Sweat Bees, Blood Bees etc | Lasioglossum calceatum | Common Furrow Bee | none | not yet evaluated | | | | A | 4 |
| Hymenoptera | Halictidae | Sphecodes geoffrellus | Geoffroy's Blood Bee | none | not yet evaluated | | | | B | 7 |
| Hymenoptera | Halictidae | Sphecodes monilicornis | Box-headed Blood Bee | none | not yet evaluated | | | | B | 7 |
| Hymenoptera | Melittidae – Melittid Bees | Dasypoda hirtipes | Pantaloone Bee | Nationally Scarce (Notable B) | not yet evaluated | | h | | B | 7 |
| Hymenoptera | Tenthredinidae – Sawflies (part) | Aglaostigma aucupariae | | none | not yet evaluated | | | Galium sp | A | 4 |
| Hymenoptera | Tenthredinidae | Ametastegia glabrata | | none | not yet evaluated | | | | A | 6 |

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| Hymenoptera | Tenthredinidae | Athalia circularis | | none | not yet evaluated | | | | B | 6 |
| Hymenoptera | Tenthredinidae | Athalia lugens | | none | not yet evaluated | | | Cruciferae | B | 9 |
| Hymenoptera | Tenthredinidae | Athalia rosae | Turnip Sawfly | none | not yet evaluated | | | Cruciferae | AB | 79 |
| Hymenoptera | Tenthredinidae | Birka cinereipes | | none | not yet evaluated | | w | water forget-me-not | AB | 4 |
| Hymenoptera | Tenthredinidae | Dolerus aeneus | | none | not yet evaluated | | g | grasses | A | 4 |
| Hymenoptera | Tenthredinidae | Dolerus aericeps | | none | not yet evaluated | | w | horsetails | B | 6 |
| Hymenoptera | Tenthredinidae | Dolerus bimaculatus | | none | not yet evaluated | | w | horsetails | B | 4 |
| Hymenoptera | Tenthredinidae | Dolerus gonager | | none | not yet evaluated | | g | grasses | A | 4 |
| Hymenoptera | Tenthredinidae | Dolerus nigratus | | none | not yet evaluated | | g | grasses | A | 4 |
| Hymenoptera | Tenthredinidae | Dolerus pratensis | | none | not yet evaluated | | w | horsetails | B | 4 |
| Hymenoptera | Tenthredinidae | Dolerus stygius | | none | not yet evaluated | | w | sedges | B | 4 |
| Hymenoptera | Tenthredinidae | Dolerus vestigialis | | none | not yet evaluated | | w | horsetails | A | 6 |
| Hymenoptera | Tenthredinidae | Eutomostethus ephippium | | none | not yet evaluated | | g | grasses | B | 7 |
| Hymenoptera | Tenthredinidae | Euura oligospilus | | none | not yet evaluated | | | willows | A | 4 |
| Hymenoptera | Tenthredinidae | Euura viduatus | | none | not yet evaluated | | | willows | B | 4 |
| Hymenoptera | Tenthredinidae | Hoplocampa chrysorrhoea | | none | not yet evaluated | | s | blackthorn | AB | 4 |
| Hymenoptera | Tenthredinidae | Macrophya duodecimpunctata | | none | not yet evaluated | | w | sedges and grasses | A | 6 |
| Hymenoptera | Tenthredinidae | Pachyprotasis rapae | | none | not yet evaluated | | | | A | 4 |
| Hymenoptera | Tenthredinidae | Pristiphora armata | | none | not yet evaluated | | s | hawthorn | AB | 4 |
| Hymenoptera | Tenthredinidae | Pristiphora palliventris | | none | not yet evaluated | | | | A | 4 |
| Hymenoptera | Tenthredinidae | Rhogogaster chlorosoma | | none | not yet evaluated | | | | A | 7 |
| Hymenoptera | Tenthredinidae | Rhogogaster scalaris | | none | not yet evaluated | | | | A | 6 |
| Hymenoptera | Tenthredinidae | Tenthredo baetica | | none | not yet evaluated | | | Brassicaceae | A | 6 |

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| Hymenoptera | Tenthredinidae | Tenthredo mesomela | | none | not yet evaluated | | | | A | 6 |
| Hymenoptera | Tenthredinidae | Tenthredo notha | | none | not yet evaluated | | g | Fabaceae | B | 7 |
| Hymenoptera | Vespidae – Social Wasps | Vespa crabro | Hornet | none | not yet evaluated | | s | | A | 9 |
| Hymenoptera | Vespidae | Vespula germanica | German Wasp | none | not yet evaluated | | | | B | 7 |
| Hymenoptera | Vespidae | Vespula vulgaris | Common Wasp | none | not yet evaluated | | | | AB | 479,10 |
| Isopoda – WOODLICE | Armadillidiidae – Pill Woodlice | Armadillidium vulgare | Common Pill Woodlouse | none | Least Concern | | | | AB | 4567 |
| Isopoda | Asellidae – Water-slaters | Asellus aquaticus | Two-spotted Water-slater | none | Least Concern | | a | | A(D1, D2)B(P 4 1,P2) | |
| Isopoda | Oniscidae – Woodlice (part) | Oniscus asellus | Common Shiny Woodlouse | none | Least Concern | | | | B | 5 |
| Isopoda | Philosciidae – Woodlice (part) | Philoscia muscorum | Common Striped Woodlouse | none | Least Concern | | | | AB | 47,10,11 |
| Isopoda | Porcellionidae – Woodlice (part) | Porcellio scaber | Common Rough Woodlouse | none | Least Concern | | | | B | 567 |
| Ixodida – TICKS | Ixodidae – Ticks (part) | Ixodes ricinus | Sheep Tick | none | | | | mammals and birds | A | 6 |
| Julida – SNAKE MILLIPEDES | Julidae – Snake Millipedes | Ophiulus pilosus | | none | Least Concern | | | | B | 5 |
| Lepidoptera – MOTHS and BUTTERFLIES | Alucitidae – Many-plumed Moths | Alucita hexadactyla | Twenty-plume Moth | none | not yet evaluated | | | honeysuckle | B | 7 |
| Lepidoptera | Choreutidae – Metalmark Moths | Anthophila fabriciana | Nettle Tap | none | not yet evaluated | | | stinging nettle | AB | 67 |
| Lepidoptera | Cosmopterigidae – Cosmet Moths | Limnaecia phragmitella | Bulrush Cosmet | none | not yet evaluated | | w | <i>Typha</i> | AB | 7 |
| Lepidoptera | Cossidae – Cossid Moths | Zeuzera pyrina | Leopard Moth | none | Least Concern | | s | dead wood | B | 7 |
| Lepidoptera | Crambidae – Grass Moths | Acentria ephemerella | Water Veneer | none | not yet evaluated | | a | | B | 7 |
| Lepidoptera | Crambidae | Agriphila inquinatella | Barred Grass-veneer | none | not yet evaluated | | g | Poaceae | B | 7 |
| Lepidoptera | Crambidae | Agriphila straminella | Straw Grass-veneer | none | not yet evaluated | | g | Poaceae | B | 7 |

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|-------------|-----------|------------------------|------------------------|-------------------------------|-------------------|-------------------|--------------|----------------------------------|------|--------|
| Lepidoptera | Crambidae | Anania coronata | Spotted Magpie | none | not yet evaluated | | s | elder | B | 7 |
| Lepidoptera | Crambidae | Anania hortulata | Small Magpie | none | not yet evaluated | | | labiates and bindweeds | AB | 7 |
| Lepidoptera | Crambidae | Anania perlucidalis | Fenland Pearl | none | not yet evaluated | | | thistles | AB | 7 |
| Lepidoptera | Crambidae | Anania verbascalis | Golden Pearl | Nationally Scarce (Notable B) | not yet evaluated | | h | wood sage | B | 7 |
| Lepidoptera | Crambidae | Calamotropha paludella | Bulrush Veneer | none | not yet evaluated | | w | <i>Typha</i> | AB | 7 |
| Lepidoptera | Crambidae | Catoptria falsella | Chequered Grass-veneer | none | not yet evaluated | | g | Poaceae | B | 7 |
| Lepidoptera | Crambidae | Catoptria pinella | Pearl Grass-veneer | none | not yet evaluated | | g | Poaceae | B | 7 |
| Lepidoptera | Crambidae | Chilo phragmitella | Reed Veneer | none | not yet evaluated | | w | <i>Phragmites</i> | AB | 7 |
| Lepidoptera | Crambidae | Chrysoteuchia culmella | Garden Grass-veneer | none | not yet evaluated | | g | Poaceae | AB | 7 |
| Lepidoptera | Crambidae | Crambus pascuella | Inlaid Grass-veneer | none | not yet evaluated | | g | Poaceae | B | 7 |
| Lepidoptera | Crambidae | Crambus perlella | Satin Grass-veneer | none | not yet evaluated | | g | Poaceae | B | 7 |
| Lepidoptera | Crambidae | Elophila nymphaeata | Brown China-mark | none | not yet evaluated | | w | | B | 7 |
| Lepidoptera | Crambidae | Eudonia mercurella | Small Grey | none | not yet evaluated | | | mosses | B | 7 |
| Lepidoptera | Crambidae | Evergestis forficalis | Garden Pebble | none | not yet evaluated | | | | A | 7 |
| Lepidoptera | Crambidae | Evergestis limbata | Dark Bordered Pearl | Nationally Scarce (Notable B) | not yet evaluated | | | garlic mustard, hedge mustard | A | 7 |
| Lepidoptera | Crambidae | Evergestis pallidata | Chequered Pearl | none | not yet evaluated | | | Brassicaceae | B | 7 |
| Lepidoptera | Crambidae | Ostrinia nubilalis | European Corn-borer | none | not yet evaluated | | h | mugwort etc | AB | 7 |
| Lepidoptera | Crambidae | Pediasia contaminella | Waste Grass-veneer | Nationally Scarce (Notable B) | not yet evaluated | | h | grasses including sheep's fescue | B | 7 |
| Lepidoptera | Crambidae | Pleuroptya ruralis | Mother of Pearl | none | not yet evaluated | | | stinging nettle | AB | 7 |
| Lepidoptera | Crambidae | Pyrausta aurata | Small Purple & Gold | none | not yet evaluated | | | mint and labiates | B | 7 |
| Lepidoptera | Crambidae | Scoparia pyralella | Meadow Grey | none | not yet evaluated | | | detritivore | B | 7 |

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| Lepidoptera | Crambidae | Scoparia ambigualis | Common Grey | none | not yet evaluated | | | mosses | B | 7 |
| Lepidoptera | Crambidae | Sitochroa verticalis | Lesser Pearl | none | not yet evaluated | | h | | B | 7 |
| Lepidoptera | Crambidae | Udea ferrugalis | Rusty Dot | none | not yet evaluated | | | | B | 7 |
| Lepidoptera | Crambidae | Udea lutealis | Pale Straw Pearl | none | not yet evaluated | | | | B | 7 |
| Lepidoptera | Crambidae | Udea prunalis | Dusky Pearl | none | not yet evaluated | | s | various plants but especially blackthorn | B | 7 |
| Lepidoptera | Depressariidae – Flat-bodied Moths | Agonopterix heracliانا | Common Flat-body | none | not yet evaluated | | g | cow parsley and rough chervil | B | 7 |
| Lepidoptera | Drepanidae – Hooktip Moths | Cilix glaucata | Chinese Character | none | Least Concern | | s | blackthorn, hawthorn, crab apple | AB | 7 |
| Lepidoptera | Drepanidae | Drepana falcataria | Pebble Hook-tip | none | Least Concern | | s | downy and silver birch | A | 7 |
| Lepidoptera | Drepanidae | Falcaria lacertinaria | Scalloped Hook-tip | none | Least Concern | | s | downy and silver birch | A | 7 |
| Lepidoptera | Drepanidae | Habrosyne pyritoides | Buff Arches | none | Least Concern | | s | bramble and dewberry | AB | 7 |
| Lepidoptera | Drepanidae | Tethea ocularis | Figure of Eighty | none | Least Concern | | s | aspen and poplars | A | 7 |
| Lepidoptera | Drepanidae | Watsonalla binaria | Oak Hook-tip | none | VULNERABLE | | s | oak | B | 7 |
| Lepidoptera | Elachistidae – Grass Miner Moths | Elachista maculicerusella | Triple-spot Dwarf | none | not yet evaluated | | w | Poaceae | B | 7 |
| Lepidoptera | Erebidae – Erebid Moths | Eilema complana | Scarce Footman | none | Least Concern | | | lichens | AB | 7 |
| Lepidoptera | Erebidae | Eilema depressa | Buff Footman | none | Least Concern | | | lichens | A | 7 |
| Lepidoptera | Erebidae | Eilema griseola | Dingy Footman | none | Least Concern | | | lichens | AB | 7 |
| Lepidoptera | Erebidae | Eilema lurideola | Common Footman | none | Least Concern | | | lichens | AB | 7 |
| Lepidoptera | Erebidae | Euproctis chrysorrhoea | Brown-tail | none | Least Concern | | | | B | 7 |
| Lepidoptera | Erebidae | Euproctis similis | Yellow-tail | none | Least Concern | | | | B | 7 |
| Lepidoptera | Erebidae | Herminia tarsipennalis | Fan-foot | none | Least Concern | | s | oak, beech etc | B | 7 |

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| Lepidoptera | Erebidae | Hypena proboscidalis | Snout | none | Least Concern | | | stinging nettle | B | 7 |
| Lepidoptera | Erebidae | Laspeyria flexula | Beautiful Hook-tip | none | Least Concern | | | lichens | B | 7 |
| Lepidoptera | Erebidae | Leucoma salicis | White Satin | none | Least Concern | | w | aspens, poplars | B | 7 |
| Lepidoptera | Erebidae | Lygephila pastinum | Blackneck | none | Near Threatened | | w | tufted vetch | B | 7 |
| Lepidoptera | Erebidae | Lymantria monacha | Black Arches | none | Least Concern | | s | oak | B | 7 |
| Lepidoptera | Erebidae | Macrochilo cribrumalis | Dotted Fan-foot | none | Least Concern | | w | sedges and rushes | B | 7 |
| Lepidoptera | Erebidae | Miltochrista miniata | Rosy Footman | none | Least Concern | | | lichens | B | 7 |
| Lepidoptera | Erebidae | Pelosia obtusa | Small Dotted Footman | Nationally Rare | Near Threatened | | w | ?algae on reeds | A | 7 |
| Lepidoptera | Erebidae | Phragmatobia fuliginosa | Ruby Tiger | none | Least Concern | | | | B | 7 |
| Lepidoptera | Erebidae | Rivula sericealis | Straw Dot | none | Least Concern | | | Poaceae | B | 67 |
| Lepidoptera | Erebidae | Scoliopteryx libatrix | Herald | none | Least Concern | | w | willow, aspens, poplars | B | 7 |
| Lepidoptera | Erebidae | Thumatha senex | Round-winged Muslin | none | Least Concern | | w | lichens and mosses | AB | 7 |
| Lepidoptera | Erebidae | Tyria jacobaeae | Cinnabar | none | Least Concern | | | ragwort | B | 7 |
| Lepidoptera | Ethmiidae – Ethmiid Moths | Ethmia quadrillella | Comfrey Ermel | Nationally Scarce (Notable B) | not yet evaluated | | | comfrey, green alkanet | A | 7 |
| Lepidoptera | Gelechiidae – Gelechiid Moths | Anarsia spartiella | Small Crest | none | not yet evaluated | | h | broom and gorse | B | 7 |
| Lepidoptera | Gelechiidae | Aroga velocella | Dusky Groundling | none | not yet evaluated | | h | sheep's sorrel | B | 7 |
| Lepidoptera | Gelechiidae | Bryotropha terrella | Cineros Groundling | none | not yet evaluated | | g | grasses and mosses | B | 7 |
| Lepidoptera | Gelechiidae | Helcystogramma rufescens | Orange Crest | none | not yet evaluated | | | grasses | AB | 7 |
| Lepidoptera | Gelechiidae | Oxypteryx wilkella | Painted Neb | Nationally Scarce (Notable B) | not yet evaluated | | h | mosses | B | 7 |
| Lepidoptera | Gelechiidae | Teleiopsis diffinis | Large Groundling | none | not yet evaluated | | h | sheep's sorrel | B | 7 |

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| Lepidoptera | Geometridae – Geometrid Moths | Alcis repandata | Mottled Beauty | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | Biston betularia | Peppered Moth | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | Cabera exanthemata | Common Wave | none | Least Concern | | w | willows and poplars | B | 7 |
| Lepidoptera | Geometridae | Camptogramma bilineata | Yellow Shell | none | Least Concern | | | Galium sp | A | 7 |
| Lepidoptera | Geometridae | Chiasmia clathrata | Latticed Heath | none | Near Threatened | | g | Fabaceae | AB | 67 |
| Lepidoptera | Geometridae | Chloroclystis v-ata | V-Pug | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Geometridae | Crocallis elinguaris | Scalloped Oak | none | Least Concern | | s | oak and other trees | AB | 7 |
| Lepidoptera | Geometridae | Ennomos alniaria | Canary-shouldered Thorn | none | Least Concern | | s | birches, alder, limes, elms etc | AB | 7 |
| Lepidoptera | Geometridae | Epione repandaria | Bordered Beauty | none | Least Concern | | w | sallows, poplars | A | 7 |
| Lepidoptera | Geometridae | Epirrhoe alternata | Common Carpet | none | Least Concern | | | Galium sp | A | 7 |
| Lepidoptera | Geometridae | Euchoeca nebulata | Dingy Shell | none | Least Concern | | w | alder | A | 7 |
| Lepidoptera | Geometridae | Euphyia unangulata | Sharp-angled Carpet | none | Least Concern | | s | | B | 7 |
| Lepidoptera | Geometridae | Eupithecia absinthiata | Wormwood Pug | none | Least Concern | | g | mugwort, yarrow | B | 7 |
| Lepidoptera | Geometridae | Eupithecia centaureata | Lime-speck Pug | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | Eupithecia pulchellata | Foxglove Pug | none | Least Concern | | | foxgloves | B | 7 |
| Lepidoptera | Geometridae | Gandaritis pyraliata | Barred Straw | none | Least Concern | | | Galiums | A | 7 |
| Lepidoptera | Geometridae | Geometra papilionaria | Large Emerald | none | Least Concern | | s | birches, hazel, alder etc | B | 7 |
| Lepidoptera | Geometridae | Gymnoscelis rufifasciata | Double-striped Pug | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | Hydriomena furcata | July Highflyer | none | Least Concern | | w | sallows, willows etc | AB | 7 |
| Lepidoptera | Geometridae | Idaea aversata | Riband Wave | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Geometridae | Idaea biselata | Small Fan-footed Wave | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | Idaea dimidiata | Single-dotted Wave | none | Least Concern | | | | A | 7 |

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|-------------|-------------|----------------------------------|----------------------|--------|---------------|-------------------|--------------|----------------------------------|------|--------|
| Lepidoptera | Geometridae | <i>Idaea fuscovenosa</i> | Dwarf Cream Wave | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | <i>Idaea rusticata</i> | Least Carpet | none | Least Concern | | s | ivy and traveller's joy | AB | 7 |
| Lepidoptera | Geometridae | <i>Idaea trigeminata</i> | Treble Brown Spot | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Geometridae | <i>Jodis lactearia</i> | Little Emerald | none | Least Concern | | s | birches, hazels, blackthorn etc | B | 7 |
| Lepidoptera | Geometridae | <i>Ligdia adustata</i> | Scorched Carpet | none | Least Concern | | s | spindle | B | 7 |
| Lepidoptera | Geometridae | <i>Lobophora halterata</i> | Seraphim | none | Least Concern | | w | aspen, poplars | B | 7 |
| Lepidoptera | Geometridae | <i>Lomaspilis marginata</i> | Clouded Border | none | Least Concern | | w | aspen, poplars, willows | AB | 7 |
| Lepidoptera | Geometridae | <i>Lomographa temerata</i> | Clouded Silver | none | Least Concern | | s | hawthorn, blackthorn, crab apple | AB | 7 |
| Lepidoptera | Geometridae | <i>Macaria alternata</i> | Sharp-angled Peacock | none | Least Concern | | w | sallows, willows, alder | AB | 7 |
| Lepidoptera | Geometridae | <i>Macaria liturata</i> | Tawny-barred Angle | none | Least Concern | | s | piners | B | 7 |
| Lepidoptera | Geometridae | <i>Opisthograptis luteolata</i> | Brimstone Moth | none | Least Concern | | s | blackthorn, hawthorn, etc | AB | 7 |
| Lepidoptera | Geometridae | <i>Ourapteryx sambucaria</i> | Swallow-tailed Moth | none | Least Concern | | s | | AB | 7 |
| Lepidoptera | Geometridae | <i>Pasiphila rectangulata</i> | Green Pug | none | Least Concern | | s | hawthorn, blackthorn, crab apple | B | 7 |
| Lepidoptera | Geometridae | <i>Peribatodes rhomboidaria</i> | Willow Beauty | none | Least Concern | | | | B | 7 |
| Lepidoptera | Geometridae | <i>Perizoma alchemillata</i> | Small Rivulet | none | Least Concern | | g | common hemp nettle | AB | 7 |
| Lepidoptera | Geometridae | <i>Perizoma flavofasciata</i> | Sandy Carpet | none | Least Concern | | | red campion | B | 7 |
| Lepidoptera | Geometridae | <i>Philereme transversata</i> | Dark Umber | none | Least Concern | | | Purging buckthorn | AB | 7 |
| Lepidoptera | Geometridae | <i>Philereme vetulata</i> | Brown Scallop | none | Least Concern | | | Purging buckthorn | AB | 7 |
| Lepidoptera | Geometridae | <i>Pseudoterpna pruinata</i> | Grass Emerald | none | Least Concern | | h | gorse and broom | B | 7 |
| Lepidoptera | Geometridae | <i>Pterapherapteryx sexalata</i> | Small Seraphim | none | Least Concern | | w | sallows | AB | 7 |

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|-------------|--|-------------------------------|------------------------|--------|-------------------|-------------------|--------------|------------------------------|------|--------|
| Lepidoptera | Geometridae | Scopula immutata | Lesser Cream Wave | none | Least Concern | | g/w | meadowsweet, common valerian | B | 7 |
| Lepidoptera | Geometridae | Scopula imitaria | Small Blood-vein | none | Least Concern | | s | privet, honeysuckle | B | 7 |
| Lepidoptera | Geometridae | Scotopteryx chenopodiata | Shaded Broad-bar | none | Least Concern | | g | Fabaceae | AB | 7 |
| Lepidoptera | Geometridae | Selenia dentaria | Early Thorn | none | Least Concern | | | | A | 7 |
| Lepidoptera | Geometridae | Selenia tetralunaria | Purple Thorn | none | Least Concern | | | | A | 7 |
| Lepidoptera | Geometridae | Timandra comae | Blood-vein | none | Least Concern | | g | | A | 7 |
| Lepidoptera | Geometridae | Xanthorhoe fluctuata | Garden Carpet | none | Least Concern | | | | A | 7 |
| Lepidoptera | Geometridae | Xanthorhoe quadrifasiata | Large Twin-spot Carpet | none | Least Concern | | s | | AB | 7 |
| Lepidoptera | Geometridae | Xanthorhoe spadicearia | Red Twin-spot Carpet | none | Least Concern | | | | B | 7 |
| Lepidoptera | Gracillariidae – Leaf Blotch Miner Moths | Phyllonorycter corylifoliella | Hawthorn Midget | none | not yet evaluated | | | | A | 7 |
| Lepidoptera | Hepialidae – Swift Moths | Hepialus humuli | Ghost Moth | none | Least Concern | | w | | B | 7 |
| Lepidoptera | Hesperiidae – Skipper Butterflies | Ochlodes sylvanus | Large Skipper | none | Least Concern | | | | A | 7 |
| Lepidoptera | Hesperiidae | Thymelicus lineola | Essex Skipper | none | Least Concern | | | | A | 7 |
| Lepidoptera | Lasiocampidae – Eggars etc | Euthrix potatoria | Drinker | none | Least Concern | | w | grasses and reed | AB | 7 |
| Lepidoptera | Limacodidae – Cup Moths | Apoda limacodes | Festoon | none | Least Concern | | s | oak | B | 7 |
| Lepidoptera | Lycaenidae – Blues etc | Lycaena phlaeas | Small Copper | none | Least Concern | | | | AB | 7,10 |
| Lepidoptera | Lycaenidae | Polyommatus icarus | Common Blue | none | Least Concern | | | | B | 9 |
| Lepidoptera | Momphidae – Momphid Moths | Mompha epilobiella | Common Mompha | none | not yet evaluated | | w | willowherbs | A | 7 |
| Lepidoptera | Momphidae | Mompha ochraceella | Buff Mompha | none | not yet evaluated | | w | willowherbs | B | 7 |
| Lepidoptera | Nepticulidae – Midget Moths | Stigmella plagicolella | Scrubland Pygmy | none | not yet evaluated | | s | blackthorn | A | 7 |

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| Lepidoptera | Noctuidae – Noctuid Moths | Abrostola tripartita | Spectacle | none | Least Concern | | | stinging nettle | AB | 7 |
| Lepidoptera | Noctuidae | Acronicta rumicis | Knot Grass | none | Least Concern | | | | A | 7 |
| Lepidoptera | Noctuidae | Agrotis clavis | Heart and Club | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Agrotis exclamationis | Heart and Dart | none | Least Concern | | | | A | 7 |
| Lepidoptera | Noctuidae | Agrotis puta | Shuttle-shaped Dart | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Agrotis segetum | Turnip Moth | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Amphipoea oculea | Ear Moth | none | Least Concern | | | Poaceae | B | 7 |
| Lepidoptera | Noctuidae | Amphipyra pyramidea | Copper Underwing | none | Least Concern | | s | | B | 7 |
| Lepidoptera | Noctuidae | Anarta trifolii | Nutmeg | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Apamea lithoxylaea | Light Arches | none | Least Concern | | | Poaceae | B | 7 |
| Lepidoptera | Noctuidae | Apamea monoglypha | Dark Arches | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Noctuidae | Apamea unanimitis | Small Clouded Brindle | none | Least Concern | | | Poaceae | B | 7 |
| Lepidoptera | Noctuidae | Apterogenum ypsilon | Dingy Shears | none | Least Concern | | w/s | willows, sallows, poplars | AB | 7 |
| Lepidoptera | Noctuidae | Arenostola phragmitidis | Fen Wainscot | none | Least Concern | | w | <i>Phragmites</i> | AB | 7 |
| Lepidoptera | Noctuidae | Axylia putris | Flame | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Caradrina morpheus | Mottled Rustic | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Cerapteryx graminis | Antler Moth | none | Least Concern | | | Poaceae | B | 7 |
| Lepidoptera | Noctuidae | Colocasia coryli | Nut-tree Tussock | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Cosmia affinis | Lesser-spotted Pinion | none | Least Concern | | s | elm | B | 7 |
| Lepidoptera | Noctuidae | Cosmia trapezina | Dun-bar | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Cryphia algae | Tree-lichen Beauty | none | NA (recent colonist) | | | lichens | A | 7 |
| Lepidoptera | Noctuidae | Deltote pygarga | Marbled White Spot | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Noctuidae | Diachrysia chrysitis | Burnished Brass | none | Least Concern | | | | AB | 7 |

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|-------------|-----------|-------------------------|--|--------|---------------|-------------------|--------------|---------------------|------|--------|
| Lepidoptera | Noctuidae | Dypterygi scabriuscula | Bird's Wing | none | Least Concern | | | Polygonaceae | A | 7 |
| Lepidoptera | Noctuidae | Eremobia ochroleuca | Dusky Sallow | none | Least Concern | | | Poaceae | B | 7 |
| Lepidoptera | Noctuidae | Euplexia lucipara | Small Angle Shades | none | Least Concern | | | | A | 7 |
| Lepidoptera | Noctuidae | Euxoa tritici | White-line Dart | none | VULNERABLE | | h | | AB | 7 |
| Lepidoptera | Noctuidae | Hoplodrina octogenaria | Uncertain | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Ipimorpha subtusa | Olive | none | Least Concern | | w | aspens and poplars | B | 7 |
| Lepidoptera | Noctuidae | Lacanobia oleracea | Bright-line Brown-eye | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Lateroligia ophiogramma | Double Lobed | none | Least Concern | | w | Poaceae | B | 7 |
| Lepidoptera | Noctuidae | Leucania comma | Shoulder-striped Wainscot | none | Least Concern | | | Poaceae | A | 7 |
| Lepidoptera | Noctuidae | Melanchra persicariae | Dot Moth | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Mythimna conigera | Brown-line Bright Eye | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Noctuidae | Mythimna ferrago | Clay | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Noctuidae | Mythimna impura | Smoky Wainscot | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Noctuidae | Noctua janthe | Lesser Broad-bordered Yellow Underwing | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Noctua comes | Lesser Yellow Underwing | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Noctua fimbriata | Broad-bordered Yellow Underwing | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Noctua pronuba | Large Yellow Underwing | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Ochropleura plecta | Flame Shoulder | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Noctuidae | Oligia fasciuncula | Middle-barred Minor | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Noctuidae | Parastichtis suspecta | Suspected | none | Least Concern | | s | birches and willows | A | 7 |

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|-------------|--|--------------------------|----------------------------|-----------|---------------|-------------------|--------------|---------------------------------|------|--------|
| Lepidoptera | Noctuidae | Photedes fluxa | Mere Wainscot | none | Least Concern | | h | wood small-reed | B | 7 |
| Lepidoptera | Noctuidae | Subacronicta megacephala | Poplar Grey | none | Least Concern | | w/s | poplars and willows, aspen | AB | 7 |
| Lepidoptera | Noctuidae | Xestia c-nigrum | Setaceous Hebrew Character | none | Least Concern | | | | B | 7 |
| Lepidoptera | Noctuidae | Xestia triangulum | Double Square-spot | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Nolidae – Tufted Moths | Earias clorana | Cream-bordered Green Pea | none | Least Concern | | w | salallows, willows etc | A | 7 |
| Lepidoptera | Nolidae | Meganola albula | Kent Black Arches | none | Least Concern | | | brambles etc – Rubus etc | B | 7 |
| Lepidoptera | Nolidae | Nola cucullatella | Short-cloaked Moth | none | Least Concern | | s | hawthorn, blackthorn, apple etc | B | 7 |
| Lepidoptera | Nolidae | Nycteola revayana | Oak Nycteoline | none | Least Concern | | s | oak | B | 7 |
| Lepidoptera | Nolidae | Pseudoips prasinana | Green Silver-lines | none | Least Concern | | | | B | 7 |
| Lepidoptera | Notodontidae – Prominents | Notodonta dromedarius | Iron Prominent | none | Least Concern | | s | birch and alder | B | 7 |
| Lepidoptera | Notodontidae | Phalera bucephala | Buff-tip | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Notodontidae | Pterostoma palpina | Pale Prominent | none | Least Concern | | w/s | aspen, poplars and willows | AB | 7 |
| Lepidoptera | Notodontidae | Ptilodon capucina | Coxcomb Prominent | none | Least Concern | | | | B | 7 |
| Lepidoptera | Notodontidae | Stauropus fagi | Lobster Moth | none | Least Concern | | s | oak, birches, alder, beech | B | 7 |
| Lepidoptera | Nymphalidae – Brush-footed Butterflies | Aglais io | Peacock | none | Least Concern | | | stinging nettle | AB | 467 |
| Lepidoptera | Nymphalidae | Aglais urticae | Small Tortoiseshell | none | Least Concern | | | nettles | AB | 469 |
| Lepidoptera | Nymphalidae | Aphantopus hyperantus | Ringlet | none | Least Concern | | | Poaceae | AB | 7 |
| Lepidoptera | Nymphalidae | Coenonympha pamphilus | Small Heath | s.41 NERC | VULNERABLE | | g | Poaceae | B | 9 |
| Lepidoptera | Nymphalidae | Maniola jurtina | Meadow Brown | none | Least Concern | | g | Poaceae | AB | 67 |
| Lepidoptera | Nymphalidae | Pararge aegeria | Speckled Wood | none | Least Concern | | s | Poaceae | A | 679 |

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|-------------|---------------------------------------|-------------------------------|-----------------------|--------|-------------------|-------------------|--------------|-----------------------------------|------|---------|
| Lepidoptera | Nymphalidae | Polygonia c-album | Comma | none | Least Concern | | | hop, stinging nettle | AB | 479 |
| Lepidoptera | Nymphalidae | Pyronia tithonus | Gatekeeper | none | Least Concern | | | Poaceae | A | 7 |
| Lepidoptera | Nymphalidae | Vanessa atalanta | Red Admiral | none | Least Concern | | | nettles | AB | 69 |
| Lepidoptera | Nymphalidae | Vanessa cardui | Painted Lady | none | Least Concern | | | | B | 7 |
| Lepidoptera | Oecophoridae – Concealer Moths | Batia lunaris | Lesser Tawny Tubic | none | not yet evaluated | | | lichens | B | 7 |
| Lepidoptera | Oecophoridae | Crassa unitella | Golden-brown Tubic | none | not yet evaluated | | | fungus | AB | 7 |
| Lepidoptera | Oecophoridae | Esperia sulphurella | Sulphur Tubic | none | not yet evaluated | | s | | A | 4 |
| Lepidoptera | Oecophoridae | Hofmannophila pseudospretella | Brown House-moth | none | not yet evaluated | | | detritivore | B | 7 |
| Lepidoptera | Oecophoridae | Metalampra italica | | none | not yet evaluated | | s | oaks | B | 7 |
| Lepidoptera | Parametriotidae – Parametriotid Moths | Blastodacna hellerella | Hawthorn Cosmet | none | not yet evaluated | | s | hawthorn | B | 7 |
| Lepidoptera | Peleopodidae – Peleopodid Moths | Carcina quercana | Long-horned Flat-body | none | not yet evaluated | | s | oak | B | 7 |
| Lepidoptera | Pieridae – White Butterflies | Anthocharis cardamines | Orange-tip | none | Least Concern | | g/w | cuckoo flower, garlic mustard etc | AB | 4 |
| Lepidoptera | Pieridae | Gonepteryx rhamni | Brimstone | none | Least Concern | | s | alder buckthorn, buckthorn | A | 46 |
| Lepidoptera | Pieridae | Pieris brassicae | Large White | none | Least Concern | | | Brassicaceae | B | 79 |
| Lepidoptera | Pieridae | Pieris napi | Green-veined White | none | Least Concern | | | Cruciferae | AB | 4679,10 |
| Lepidoptera | Pieridae | Pieris rapae | Small White | none | Least Concern | | | Cruciferae | AB | 69 |
| Lepidoptera | Plutellidae – Plutellid Moths | Plutella xylostella | Diamond-back Moth | none | not yet evaluated | | | | B | 7 |
| Lepidoptera | Pterophoridae – Plume Moths | Adaina microdactyla | Hemp-agrimony Plume | none | not yet evaluated | | g/w | Hemp-agrimony | B | 7 |
| Lepidoptera | Pterophoridae | Pterophorus pentadactyla | White Plume Moth | none | not yet evaluated | | | bindweeds | B | 7 |
| Lepidoptera | Pyralidae – Pyralid Moths | Acrobasis advenella | Grey Knot-horn | none | not yet evaluated | | s | hawthorn, rowan | B | 7 |
| Lepidoptera | Pyralidae | Acrobasis repandana | Warted Knot-horn | none | not yet evaluated | | s | oak | B | 7 |

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|-------------|-----------------------------|------------------------|--------------------------|-------------------------------|-------------------|-------------------|--------------|--|------|--------|
| Lepidoptera | Pyralidae | Aphomia sociella | Bee Moth | none | not yet evaluated | | | subterranean bee and wasp nests | B | 7 |
| Lepidoptera | Pyralidae | Endotricha flammealis | Rosy Tabby | none | not yet evaluated | | w | greater bird's-trefoil | AB | 7 |
| Lepidoptera | Pyralidae | Euzophera pinguis | Ash-bark Knot-horn | none | not yet evaluated | | s | ash | A | 7 |
| Lepidoptera | Pyralidae | Hypsopygia costalis | Gold Triangle | none | not yet evaluated | | | detritus, decaying organic vegetative material | AB | 7 |
| Lepidoptera | Pyralidae | Hypsopygia glaucinalis | Double-striped Tabby | none | not yet evaluated | | | | A | 7 |
| Lepidoptera | Pyralidae | Pempelia genistella | Gorse Knot-horn | Nationally Scarce (Notable A) | not yet evaluated | | h | gorse | B | 7 |
| Lepidoptera | Pyralidae | Phycita roborella | Dotted Oak Knot-horn | none | not yet evaluated | | s | oak | AB | 7 |
| Lepidoptera | Sphingidae – Hawk-moths | Deilephila elpenor | Elephant Hawk-moth | none | Least Concern | | | bogbean, willowherbs, fuchsias etc | B | 7 |
| Lepidoptera | Sphingidae | Deilephila porcellus | Small Elephant Hawk-moth | none | Least Concern | | | galliums | B | 7 |
| Lepidoptera | Sphingidae | Laothoe populi | Poplar Hawk-moth | none | Least Concern | | s | | AB | 7 |
| Lepidoptera | Sphingidae | Sphinx pinastri | Pine Hawk-moth | none | Least Concern | | s | pinus | B | 7 |
| Lepidoptera | Tineidae – Tineid Moths | Tinea trinotella | Bird's-nest Moth | none | not yet evaluated | | | organic detritus | B | 7 |
| Lepidoptera | Tortricidae – Tortrix Moths | Acleris forsskaleana | Maple Button | none | Least Concern | | s | Acer sp | B | 7 |
| Lepidoptera | Tortricidae | Acleris holmiana | White-triangle Button | none | Least Concern | | s | rose, hawthorn, apple etc | B | 7 |
| Lepidoptera | Tortricidae | Aethes cnicana | Thistle Conch | none | Least Concern | | g | thistles | B | 7 |
| Lepidoptera | Tortricidae | Agapeta hamana | Common Yellow Conch | none | Least Concern | | g | thistles | AB | 7 |
| Lepidoptera | Tortricidae | Agapeta zoegana | Knapweed Conch | none | not yet evaluated | | g | knapweeds | B | 7 |
| Lepidoptera | Tortricidae | Ancylis achatana | Triangle-marked | none | Least Concern | | s | hawthorn, | B | 7 |

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| | | | Roller | | | | | blackthorn etc | | |
| Lepidoptera | Tortricidae | Archips podana | Large Fruit-tree Tortrix | none | Least Concern | | s | | A | 7 |
| Lepidoptera | Tortricidae | Celypha lacunana | Common Marble | none | Least Concern | | | | AB | 7 |
| Lepidoptera | Tortricidae | Celypha striana | Barred Marble | none | Least Concern | | | dandelions | AB | 7 |
| Lepidoptera | Tortricidae | Cochylochroa atricapitana | Black-headed Conch | none | not yet evaluated | | | ragwort | B | 7 |
| Lepidoptera | Tortricidae | Neocochyliis dubitana | Little Conch | none | Least Concern | | g | Asteraceae | B | 7 |
| Lepidoptera | Tortricidae | Neocochyliis molliculana | Ox-tongue Conch | none | Least Concern | | g | bristly ox-tongue | B | 7 |
| Lepidoptera | Tortricidae | Cydia splendana | Marbled Piercer | none | Least Concern | | s | oak, sweet chestnut | B | 7 |
| Lepidoptera | Tortricidae | Epiblema foenella | White-foot Bell | none | Least Concern | | g | mugwort | AB | 7 |
| Lepidoptera | Tortricidae | Epiphyas postvittana | Light Brown Apple Moth | none | not yet evaluated | | | | B | 7 |
| Lepidoptera | Tortricidae | Eucosma campoliliana | Marbled Bell | none | Least Concern | | h | ragwort | B | 7 |
| Lepidoptera | Tortricidae | Eucosma cana | Hoary Belle | none | Least Concern | | g | thistle, black knapweed | AB | 7 |
| Lepidoptera | Tortricidae | Eucosma hohenwartiana | Bright Bell | none | Least Concern | | g | knapweeds | B | 7 |
| Lepidoptera | Tortricidae | Eudemis profundana | Diamond-back Marble | none | Least Concern | | s | oak | B | 7 |
| Lepidoptera | Tortricidae | Eupoecilia angustana | Marbled Conch | none | not yet evaluated | | | | B | 7 |
| Lepidoptera | Tortricidae | Gypsonoma dealbana | Common Cloaked Shoot | none | Least Concern | | s | | B | 7 |
| Lepidoptera | Tortricidae | Hedya nubiferana | Marbled Orchard Tortrix | none | Least Concern | | s | | B | 7 |
| Lepidoptera | Tortricidae | Hedya salicella | White-backed Marble | none | Least Concern | | w | willows and poplars | AB | 7 |
| Lepidoptera | Tortricidae | Notocelia trimaculana | Triple-blotched Bell | none | Least Concern | | s | hawthorn | B | 7 |
| Lepidoptera | Tortricidae | Notocelia uddmanniana | Bramble Shoot Moth | none | not yet evaluated | | | bramble | B | 7 |
| Lepidoptera | Tortricidae | Pammene fasciana | Acorn Piercer | none | Least Concern | | s | oak, sweet chestnut | B | 7 |

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| Lepidoptera | Tortricidae | Pandemis cerasana | Barred Fruit-tree Tortrix | none | Least Concern | | | | B | 7 |
| Lepidoptera | Tortricidae | Pandemis heparana | Dark Fruit-tree Tortrix | none | Least Concern | | s | | B | 7 |
| Lepidoptera | Tortricidae | Phtheochroa inopiana | Plain Conch | none | Least Concern | | w/g | common fleabane | AB | 7 |
| Lepidoptera | Tortricidae | Piniphila bifasciana | Pine Marble | none | not yet evaluated | | s | pin | B | 7 |
| Lepidoptera | Tortricidae | Pseudargyrotoza conwagana | Yellow-spot Twist | none | Least Concern | | s | ash, privet | B | 7 |
| Lepidoptera | Tortricidae | Spilonota ocellana | Bud Moth | none | Least Concern | | s | | B | 7 |
| Lepidoptera | Tortricidae | Zeiraphera isertana | Cock's-head Bell | none | Least Concern | | s | oak | B | 7 |
| Lepidoptera | Yponomeutidae – Ermine Moths | Paraswammerdamia nebulosa | Hawthorn Ermine | none | Least Concern | | s | hawthorn, rose etc | AB | 7 |
| Lepidoptera | Yponomeutidae | Yponomeuta evonymella | Bird-cherry Ermine | none | not yet evaluated | | s | cherry, cherry plum etc | AB | 7 |
| Lepidoptera | Yponomeutidae | Yponomeuta rorrella | Willow Ermine | none | not yet evaluated | | w | willows, sallows | B | 7 |
| Lepidoptera | Ypsolophidae – Ypsolophid Moths | Ypsolopha scabrella | Wainscot Smudge | none | not yet evaluated | | s | hawthorn and apple | B | 7 |
| Lithobiomorpha – CENTIPEDES | Lithobiidae – Centipedes (part) | Lithobius forficatus | Brown Centipede | none | Least Concern | | | | B | 7 |
| Lithobiomorpha | Lithobiidae | Lithobius microps | Stone Centipede | none | Least Concern | | | | B | 56 |
| Mecoptera – SCORPIONFLIES | Panorpidae – Scorpionflies | Panorpa communis | | none | not yet evaluated | | | | AB | 67 |
| Megaloptera – ALDERFLIES | Sialidae – Alderflies | Sialis lutaria | | none | not yet evaluated | | w/a | | A | 46 |
| Neotaenioglossa – SNAILS (part) | Bithyniidae – Bithyniid Snails | Bithynia tentaculata | Common Bithynia | none | | | w/a | | A(D2) | 6 |
| Neuroptera – LACEWINGS | Chrysopidae – Green Lacewings | <i>Chrysoperla carnea agg.</i> | | | | | | | B | 10 |
| Neuroptera | Hemerobiidae – Brown Lacewings | Hemerobius humulinus | | none | not yet evaluated | | | | AB | 4 |
| Neuroptera | Hemerobiidae | Hemerobius lutescens | | none | not yet evaluated | | | | A | 4 |
| Neuroptera | Hemerobiidae | Psectra diptera | | none | not yet evaluated | | | | A | 6 |

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|--|---|----------------------------|--------------------------|--------|-------------------|-------------------|--------------|-------------|----------------|--------|
| Odonata – DRAGONFLIES and DAMSELFLIES | Aeshnidae – Hawkers | Aeshna mixta | Migrant Hawker | none | Least Concern | | w/a | | A | 9 |
| Odonata | Calopterygidae – Demoiselle Damselflies | Calopteryx splendens | Banded Demoiselle | none | Least Concern | | w/a | | A | 6 |
| Odonata | Coenagrionidae – Red and Blue Damselflies | Coenagrion puella | Azure Damselfly | none | Least Concern | | w/a | | AB | 6 |
| Odonata | Coenagrionidae | Enallagma cyathigerum | Common Blue Damselfly | none | Least Concern | | w/a | | B(P1) | 4 |
| Odonata | Coenagrionidae | Pyrrhosoma nymphula | Large Red Damselfly | none | Least Concern | | w/a | | A(D1) B(P1) | 46 |
| Odonata | Libellulidae – Darters and Chasers | Sympetrum sanguineum | Ruddy Darter | none | Least Concern | | w/a | | A | 9 |
| Odonata | Libellulidae | Sympetrum striolatum | Common Darter | none | Least Concern | | w/a | | B | 9,10 |
| Opiliones | Nemastomatidae – Harvestmen (part) | Nemastoma bimaculatum | | none | not yet evaluated | | | | B | 11 |
| Opiliones | Phalangidae – Harvestmen (part) | Leiobunum rotundum | | none | not yet evaluated | | | | AB | 9 |
| Opiliones | Phalangidae | Oligolophus tridens | | none | not yet evaluated | | | | A | 11 |
| Opiliones | Phalangidae | Opilio parietinus | | none | not yet evaluated | | | | B | 7 |
| Opiliones | Phalangidae | Paroligolophus agrestis | | none | not yet evaluated | | | | A | 9 |
| Opiliones | Phalangidae | Phalangium opilio | | none | not yet evaluated | | | | B | 7 |
| Opiliones | Phalangidae | Platybunus triangularis | | none | not yet evaluated | | | | A | 6 |
| Orthoptera – GRASSHOPPERS, GROUNDHOPPERS and BUSH-CRICKETS | Acrididae – Grasshoppers | Chorthippus albomarginatus | Lesser Marsh Grasshopper | none | Least Concern | | g | | A | 7 |
| Orthoptera | Acrididae | Chorthippus brunneus | Common Field Grasshopper | none | Least Concern | | g/h | | B | 79 |
| Orthoptera | Acrididae | Chorthippus parallelus | Meadow Grasshopper | none | Least Concern | | g | | AB | 79 |
| Orthoptera | Acrididae | Myrmeleotettix maculatus | Mottled Grasshopper | none | Least Concern | | h | | B | 67 |

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|--------------------------------------|--|--------------------------|------------------------------|-----------------|-------------------|-------------------|--------------|-------------|-------|--------|
| Orthoptera | Conocephalidae – Coneheads | Conocephalus dorsalis | Short-winged Conehead | none | Least Concern | | g | | A | 79 |
| Orthoptera | Conocephalidae | Conocephalus fuscus | Long-winged Cone-head | none | Least Concern | | g | | AB | 79,10 |
| Orthoptera | Meconematidae – Oak Bush-crickets | Meconema thalassinum | Oak Bush Cricket | none | Least Concern | | s | | A | 7 |
| Orthoptera | Phaneropteridae – Bush-crickets (part) | Leptophyes punctatissima | Speckled Bush-cricket | none | Least Concern | | | | AB | 679 |
| Orthoptera | Tetrigidae – Groundhoppers | Tetrix subulata | Slender Ground-hopper | none | Least Concern | | g/w | | AB | 45679 |
| Orthoptera | Tetrigidae | Tetrix undulata | Common Ground-hopper | none | Least Concern | | g/w | | A | 9 |
| Orthoptera | Tettigoniidae – Bush-crickets (part) | Pholidoptera griseoptera | Dark Bush Cricket | none | Least Concern | | | | AB | 467,10 |
| Orthoptera | Tettigoniidae | Roeseliana roeselii | Roesel's Bush-cricket | none | Least Concern | | g | | AB | 69 |
| Plecoptera – STONEFLIES | Nemouridae – Nemourid Stoneflies | Nemoura cinerea | | none | Least Concern | | a/w | | A | 4 |
| Plecoptera | Nemouridae | Nemoura dubitans | | Nationally Rare | Least Concern | | a/w | | AB | 4 |
| Plecoptera | Nemouridae | <i>Nemouridae larva</i> | | | | | | | A(D1) | 4 |
| Plecoptera | Nemouridae | Nemurella pictetii | | none | Least Concern | | a/w | | B | 4 |
| Polydesmida – FLAT-BACKED MILLIPEDES | Polydesmidae – Flat-backed Millipedes | Polydesmus angustus | Common Flat-backed Millipede | none | Least Concern | | | | A | 6 |
| Psocoptera – BARKLICE | Caeciliusidae – Barklice (part) | Valenzuela atricornis | | ? | not yet evaluated | | | | A | 7 |
| Psocoptera | Philotarsidae – Barklice (part) | Philotarsus picicornis | | none | not yet evaluated | | s | | A | 7 |
| Psylloidea – JUMPING PLANTLICE | Psyllidae – Jumping Plant Lice | Psylla alni | | none | not yet evaluated | | s | alder | A | 67 |
| Pulmonata – TERRESTRIAL GASTROPODS | Cochlicopidae – Pillar Snails | Cochlicopa lubrica | Slippery Moss Snail | none | | | | | B | 4 |
| Pulmonata | Gastrodontidae – | Zonitoides nitidus | Shiny Glass Snail | none | | | | | B | 5 |

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|------------------------------------|-----------------------------------|------------------------------------|-------------------------|--------|-------------------|-------------------|--------------|-------------|----------------|--------|
| | Gloss Snails | | | | | | | | | |
| Pulmonata | Helicidae – Helicid Snails | Cepaea hortensis | White-lipped Snail | none | | | | | A | 7 |
| Pulmonata | Helicidae | Cepaea nemoralis | Brown-lipped Snail | none | | | | | A | 469 |
| Pulmonata | Helicidae | Cornu aspersum | Common Garden Snail | none | | | | | A | 679 |
| Pulmonata | Hygromiidae – Leaf Snails | Monacha cantiana | Kentish Snail | none | | | | | A | 46 |
| Hygrophila – FRESHWATER GASTROPODS | Lymnaeidae – Pond Snails | Galba truncatula | Dwarf Pond Snail | none | | | a/w | | A | 9 |
| Hygrophila | Lymnaeidae | <i>Stagnicola fuscus/palustris</i> | <i>Marsh Pond Snail</i> | | | | a/w | | A(D2) | 49 |
| Hygrophila | Lymnaeidae | Lymnaea stagnalis | Great Pond Snail | none | | | a | | A(D1, D2) | 46 |
| Hygrophila | Lymnaeidae | Ampullaceana balthica | Wandering Pond Snail | none | | | a/w | | A(D2) B(P1,P2) | 49 |
| Hygrophila | Physidae – Bladder Snails | Aplexa hypnorum | Moss Bladder Snail | none | | | w | | A(I) | 4 |
| Hygrophila | Planorbidae – Ramshorn Snails | Anisus vortex | Whirlpool Ram's-horn | none | | | a | | A(D1, D2) | 4 |
| Hygrophila | Planorbidae | Planorbarius corneus | Great Ram's-horn | none | | | a | | A(D2) | 4 |
| Hygrophila | Planorbidae | Planorbis planorbis | Margined Ram's-horn | none | | | a | | A(D1) | 4 |
| Pulmonata | Succineidae – Amber Snails | Oxyloma elegans | Pfeiffer's Amber Snail | none | | | w | | B(ditch) | 45 |
| Pulmonata | Valloniidae – Valloniid Snails | Vallonia pulchella | Smooth Grass Snail | none | | | | | A | 4 |
| Pulmonata | Vertiginidae – Whorl Snails | Vertigo pygmaea | Common Whorl Snail | none | | | | | AB | 6,11 |
| Sternorrhyncha – APHIDS | Aphididae – Aphids | Tuberolachnus salignus | Large Grey Willow Aphid | none | not yet evaluated | | s | | B | 10 |
| Trichoptera – CADDISFLIES | Leptoceridae – Caddisflies (part) | Leptocerus tineiformis | | none | Least Concern | | w/a | | B | 7 |

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|------------------------|------------------------------------|----------------------------------|-------------------|--------|---------------|-------------------|--------------|-------------|--------------------|--------|
| Trichoptera | Leptoceridae | Mystacides longicornis | Grouse Wing | none | Least Concern | | w/a | | B | 7 |
| Trichoptera | Leptoceridae | Oecetis ochracea | | none | Least Concern | | w/a | | B | 7 |
| Trichoptera | Limnephilidae – Caddisflies (part) | Glyphotaelius pellucidus | | none | Least Concern | | w/a | | A | 6 |
| Trichoptera | Limnephilidae | Limnephilus auricula | | none | Least Concern | | w/a | | A | 4 |
| Trichoptera | Limnephilidae | Limnephilus incisus | | none | Least Concern | | w/a | | B | 6 |
| Trichoptera | <i>unknown</i> | <i>Trichoptera larva (cased)</i> | | | | | a | | A(D1, D2)B(P 1,P2) | 4 |
| Tricladida – FLATWORMS | <i>unknown</i> | <i>Triclada sp</i> | | | | | a | | B(P2) | 4 |
| Trombidiformes – MITES | Tetranychidae – Tetranychid Mites | Tetranychus lintearius | Gorse Spider Mite | none | | | h | gorse | B | 4 |